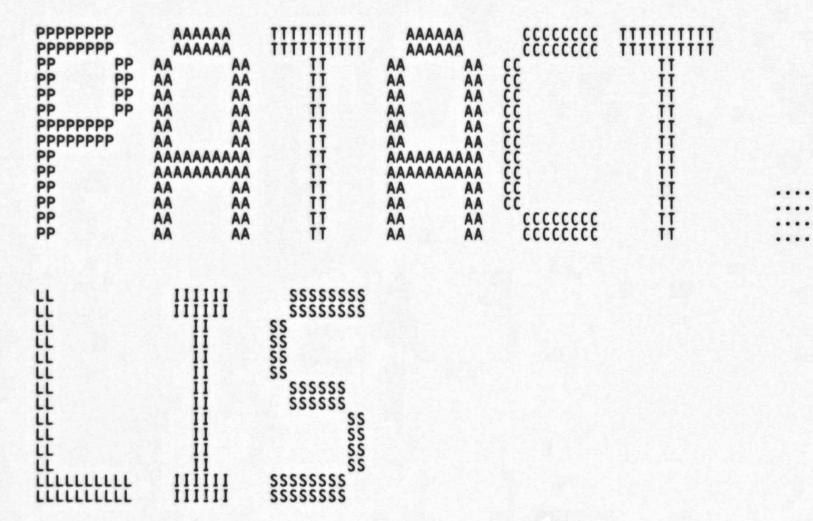
PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	AAAAAAA AAAAAAA AAAAAAA		000000000000000000000000000000000000000	HHH HHH HHH	ннн ннн ннн
PPP PPP	AAA AAA	TTT	CCC	ННН	ннн
PPP PPP	AAA AAA	İİİ	ČČČ	ННН	ннн
PPP PPP	AAA AAA	İİİ	ČČČ	ННН	ННН
PPP PPP	AAA AAA	İİİ	ČČČ	ННН	ннн
PPP PPP	AAA AAA	İİİ	ČČČ	ННН	ННН
PPP PPP	AAA AAA	İİİ	CCC	ННН	ннн
PPPPPPPPPPP	AAA AAA	İİİ	CCC	нинининини	
PPPPPPPPPPP	AAA AAA	İİİ	ČČČ	нинининини	
PPPPPPPPPPP	AAA AAA	İİİ	ČČČ	нинининини	
PPP	AAAAAAAAAAAAA	İİİ	CCC	ннн	ннн
PPP	AAAAAAAAAAAAA	İİİ	CCC	ННН	ннн
PPP	AAAAAAAAAAAA	İİİ	ČČČ	ннн	ннн
PPP	AAA AAA	iii	ČČČ	ННН	ннн
PPP	AAA AAA	iii	ČČČ	ННН	ннн
PPP	AAA AAA	tit	ččč	ННН	ннн
PPP	AAA AAA	iii	CCCCCCCCCC	ННН	ннн
PPP	AAA AAA	tit	2222222222	ННН	ннн
PPP	AAA AAA	iii	2222222222	ннн	ннн



-

PA

MODULE PATACT ( 0002 0003

ADDRESSING MODE (EXTERNAL = GENERAL, NONEXTERNAL = LONG\_RELATIVE), IDENT = 'V04-000') =

BEGIN

0004

0005 0006

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FACILITY:

ABSTRACT:

End of command line action routine plus a few other parsing action routines.

ENVIRONMENT: STARLET, user mode, interrupts disabled.

Version: V02-029

PATCH

History:

Author:

Carol Peters, 03 Jul 1976: Version 01

MODIFIED BY:

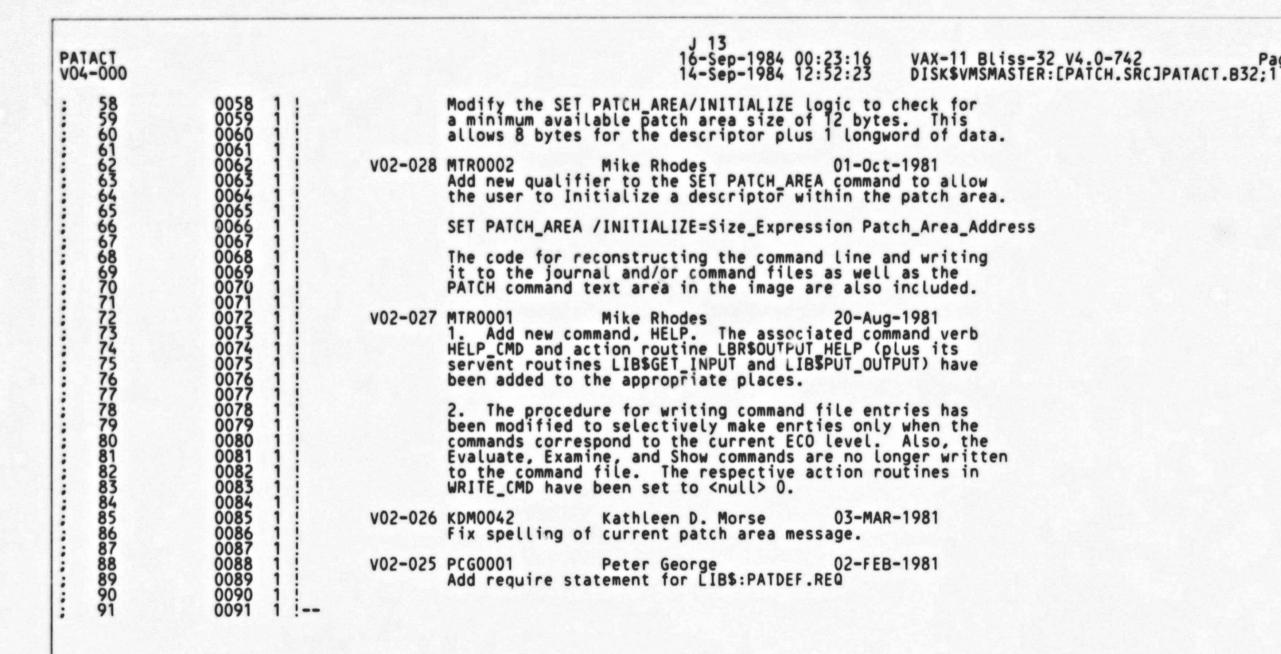
MCN0185 Maria del C. Nasr 07-Aug-1984 Do not execute those commands that are invalid when V03-002 MCN0185 patching in /ABSOLUTE context. Return error message to user.

V03-001 MTR0012 Mike Rhodes 16-Aug-1982 Modify file names to remove duplicate file name useage between code and require files.

V02-029 MTR0003

Mike Rhodes

03-Feb-1982



PATACT V04-000			K 13 16-Sep-1984 00:23:16 14-Sep-1984 12:52:23	VAX-11 Bliss-32 V4.0-742 Page DISK\$VMSMASTER:[PATCH.SRC]PATACT.B32;1 (2
93 94 95 96 97 98 99	0093 1 0094 1 0095 1 0096 1 0097 1 0098 1	RD ROUTINE PATSEND_OF_CMD : NOVALUE, PATSEND_OF_LINE : NOVALUE, PATSPERFORM_CMD, WRITE_CMD : NOVALUE, PATSSET_OVERS : NOVALUE, PATSSET_COMQUAL: NOVALUE, PATSGET_COMQUAL : NOVALUE;		! End of command processing routine ! End of command line processing routine ! Executes a patch command ! Writes command line to command file ! Sets mode level to local or override leve ! Sets bit to indicate qualifier in command ! Finds all command qualifiers specified
93 94 95 97 98 99 100 101 102 103 104 105 106 107 108 109	0101 1 LIBRA 0102 1 REQUI 0142 1 REQUI 0207 1 REQUI 0429 1 REQUI 0505 1 REQUI 0563 1 REQUI 0605 1 REQUI 0659 1 REQUI 0833 1 REQUI	RY 'SYS\$LIBRARY:LIB.L32'; RE 'SRC\$:PATPCT.REQ'; RE 'SRC\$:VXSMAC.REQ'; RE 'SRC\$:PATGEN.REQ'; RE 'SRC\$:BSTRUC.REQ'; RE 'SRC\$:DLLNAM.REQ'; RE 'SRC\$:LISTEL.REQ'; RE 'LIB\$:PATDEF.REQ'; RE 'LIB\$:PATDEF.REQ'; RE 'SRC\$:SYSSER.REQ'; RE 'SRC\$:SYSSER.REQ';		! Defines literals

PATACT V04-000 : R1072 1 SWITCHES LIST (SOURCE); : R1073 1 : R1074 1 EXTERNAL ROUTINE : R1075 1 PAT\$fao\_out; L 13 16-Sep-1984 00:23:16 VAX-11 Bliss-32 V4.0-742 Page 4 15-Sep-1984 22:50:49 \_\$255\$DUA28:[PATCH.SRC]SYSSER.REQ;1 (1)

! formats a line and outputs to the terminal

```
PATACT
VO4-000
                                                                                                                                                                                                                                                                                                                                                  16-Sep-1984 00:23:16
14-Sep-1984 12:52:23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VAX-11 Bliss-32 V4.0-742 Page 5
DISK$VMSMASTER:[PATCH.SRC]PATACT.B32;1 (2)
                                                                                                                            REQUIRE 'SRC$:PREFIX.REQ';
REQUIRE 'SRC$:PATPRE.REQ';
REQUIRE 'SRC$:PATRTS.REQ';
REQUIRE 'HELPDEF';
                                                                                    REQUIRE 'SRC$:PATRTS.REQ';

REQUIRE 'HELPDEF';

EXTERNAL ROUTINE

LBR$OUTPUT HELP,

LIB$GET_INPUT,

LIB$PUT_OUTPUT,

PAT$ADD_PAL,

PAT$ADD_PAL,

PAT$ADD_PAL,

PAT$ADELETE PATH,

PAT$CANC MDULE,

PAT$DELETE PATH,

PAT$CANC MDULE,

PAT$SECO CMDS,

PAT$ECO CMDS,

PAT$FILE BUF,

PAT$FREE ARG,

PAT$FREE ARG,

PAT$FREE ARG,

PAT$FREE ARG,

PAT$INIT MODES,

PAT$NUT MEM_LOC,

PAT$OUT PAL_EXP,

PAT$SOUT PAL_EXP,

PAT$SAVE SCOPE,

PAT$SAVE SCOPE,

PAT$SET MODULE,

PAT$SET MODULE,

PAT$SET MODULE,

PAT$SET NEW MOD,

PAT$SHOW DEFAL,

PAT$SHOW DEFAL,

PAT$SHOW SCOPE,

PAT$SHOW SCOPE,

PAT$SHOW SCOPE,

PAT$SHOW SCOPE,

PAT$SHOW SCOPE,

PAT$SHOW SCOPE,

PAT$SHOW SCOPE,

PAT$SHOW SCOPE,

PAT$SHOW SCOPE,

PAT$SHOW SCOPE,

PAT$SHOW SCOPE,

PAT$SHOW SCOPE,

PAT$WRITE INS: NOVALUE,

PAT$WRITE INS: NOVALUE,

PAT$WRITE INS: NOVALUE,

PAT$WRITE INS: NOVALUE,

PAT$WRITE INS: NOVALUE,

PAT$WRITE INS: NOVALUE,

PAT$WRITE NAME: NOVALUE,

PAT$WRITE NAME: NOVALUE,

PAT$WRITE NAME: NOVALUE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ! Help options value definitions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Interactive help facility
Not currently required...here for future u
Writes the help text for LBR$OUTPUT_HELP
Adds patch area to list
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Align command
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Free up pathname storage
Cancels symbols for modules
Define command
Deposit command
Set eco level and check eco level commands
Examine command
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Examine command
Formats an FAO line
Updates and enlarges a buffer from a strin
Frees elements of a command argument list
Releases storage in dynamic allocation are
Initializes modes
Maps a virtual address
Opens command file for output
Outputs values to output device
Outputs PATCH Area address and size expres
Replace command
Resets modes to initialization mode
Saves a current path name
Initializes context bits
Sets up symbols for modules
Sets mode list
Sets mode pointer
Sets new modes
Show default command
Show scope command
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Show scope command
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Writes expressions to the command file Writes data to a file Writes instruction-type command arguments
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Writes names to the command file
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ! Writes out new patched image
                                                                                    3197

3198

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1
                                                                                                                  1 EXTERNAL
                                                                                                                                                                      PATSGL_HELP_LIN : BLOCK [8,BYTE],
PATSGB_MOD_PTR : REF VECTOR[,BYTE],
PATSGL_ECO_UPD : BITVECTOR,
PATSGB_EXEC_CMD : BYTE,
PATSGL_CSP_PTR : REF PATHNAME_VECTOR,
PATSGL_COMQUAL : BITVECTOR,
PATSGL_IHPPTR : REF BLOCK[,BYTE],
PATSGL_BUF_SIZ,
PATSGL_BUF_SIZ,
PATSGL_COMRAB,
PATSGL_FLAGS : BITVECTOR [32],
PATSGL_RLOC_BUF : BLOCK[,BYTE],
PATSGL_TEMP_BUF : BLOCK[,BYTE],
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ! Global descriptor to remainder of command
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Current mode pointer
Update qualifier eco mask
Indicator whether or not to execute patch
Current scope position
Command qualifier indicators
Pointer to patch section of image header
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pointer to output buffer
Size of data written into output buffer
Command file RAB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ! CLI flags
! Descriptor for relocation buffer
! Descriptor temporary deposit buffer
```

```
N 13
16-Sep-1984 00:23:16
14-Sep-1984 12:52:23
PATACT
VO4-000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[PATCH.SRC]PATACT.B32;1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PATSGL_OLD_ASD : BLOCK[,BYTE],
PATSGL_NEW_ASD : BLOCK[,BYTE],
PATSGB_SUBST_IN : VECTOR[,BYTE],
PATSGL_FWRLHD,
PATSCP_INP_DSCS : REF_VECTOR [, LONG],
PATSGB_TAKE (MD: BYTE,
PATSGL_CONTEXT: BITVECTOR,
PATSGL_HEAD_LST,
PATSGL_JNLRAB,
PATSGL_SEMAN1 : VECTOR,
PATSGL_SEMAN1 : VECTOR,
PATSGL_IMGHDR : REF_BLOCK[,BYTE],
PATSGL_PATAREA : REF_BLOCK[,BYTE],
PATSGL_OLDLABLS,
PATSGL_NEWLABLS,
PATSGL_RLCLABLS,
PATSGL_SYMTBPTR,
PATSGL_SYMTBPTR,
PATSGL_SYMTBPTR,
PATSGL_SYMHEAD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Descriptor for old contents assembler dire
Descriptor for new contents assembler dire
Buffer for substitution instructions
FoWard Reference table listhead
Table of input string descriptors
Flag which says continue to accept command
Context word
Head of command argument list
Journal file RAB
Token stack for parser
Image header pointer
Patch area descriptor pointer
Pointer to listhead for old contents label
Pointer to listhead for new contents un-re
Pointer to listhead for new contents reloc
Pointer to current symbol table listhead
Listhead for user-defined symbol table
                                                                                                                                                                                                                                                                        COMMAND VERB STRINGS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      UPLIT BYTE (%ASCIC 'AL '): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'CA M'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'CA MODU'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'CA MODU'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'CA MODU 'ALL'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'CA PAT'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'CA PAT'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'CH EC'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'DEF'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'DEF'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'DEF'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'E'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'E'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'EXI'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'INSE'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC '!AD'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC '!AC'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'SE EC'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'SE EC'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'SE EC'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'SE EC'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'SE MODU /ALL'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'SE SC'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'SE SC'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'SE SC'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'SE SC'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'SE SC'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'SE SC'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'SE SC'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'SH SC'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'SH SC'): VECTOR[,BYTE],
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UPLIT BYTE (%ASCIC 'SH SC'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'SH SC'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'SH SC'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'SH SC'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'SH SC'): VECTOR[,BYTE],
UPLIT BYTE (%ASCIC 'SH SC'): VECTOR[,BYTE],
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ALIGN CMD = CANCEL MODE CMD = CANCEL MODU CMD = CANCEL SCO CMD = CANCEL PAT CMD = CHECK FCO CMD = CHECK FCO CMD = CHECK FCO CMD = DELETE CMD = DELETE CMD = EXAMINE CMD = EXAMINE CMD = EXAMINE CMD = EXIT CMD = SET MODU CMD = SET MODU CMD = SET MODU CMD = SET MODU CMD = SET SCO CMD = SET SCO CMD = SET SCO CMD = SET MODU CMD = SET MODU CMD = SET SCO CMD = SET SCO CMD = SHOW MODU CMD = SHOW MODU CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO CMD = SHOW SCO C
                                                                                                                                                                                                                                                                                                                                                                                                      BIND
                                                                                                                                                                                                                                                                                                                                                                                                                                          Qualifiers for align command.
```

PATACT V04-000			B 14 16-Sep-1984 00:23:16 14-Sep-1984 12:52:23	VAX-11 Bliss-32 V4.0-742 Page DISK\$VMSMASTER:[PATCH.SRC]PATACT.B32;1 (2
227 228 229 230 231 233 233 233 233 233 233 233 233 233	3270 1 3271 1 3272 1 3273 1 3274 1 3275 1 3276 1	ALIGN_QUAL_TBL =	UPLIT BYTE (  XASCII '/BYT',  XASCII '/WOR',  XASCII '/QUA',  XASCII '/PAG',	) : VECTOR[,BYTE];
236 237 238 239 240 241	3278 1 LITO 3279 1 3280 1 3281 1 3282 1 3283 1 3284 1	ALIGN QUAL LNG = 4, NO CASE TABLE = 0, CASE TABLE = 1, HELP_FLAGS = HLP\$M_P HLP\$M_G HLP\$M_S	ROCESS OR ROUP OR YSTEM;	! Length of align qualifiers ! Don't print CASE dispatch tables ! Print CASE dispatch tables ! Disallow HELP prompting only. ! Default Logical Name Table searching to ! Process, Group, and System.

PAT VO4

PAT VO

```
D 14
16-Sep-1984 00:23:16
14-Sep-1984 12:52:23
PATACT
V04-000
                                                                                                                                                     VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[PATCH.SRC]PATACT.B32;1
     300
301
302
303
                                        BEGIN
                                        LOCAL
                                                      POINTER, DESC_PTR : REF BLOCK[,BYTE];
                                                                                                                                                        Pointer to current command parameter
                                                                                                                                                     ! Pointer to symbolic name descriptor
     This routine guarantees the internal consistency of PATCH, and must succeed or give up.
                                        PATSGL_SYMTBPTR = .PATSGL_SYMHEAD;
PATSINIT MODES (OVERRIDE MODE, USER_DEF_MODE);
PATSSET_MOD_LVL (USER_DEF_MODE);
PATSSET_CONTEXT ();
PATSGB_SUBST_IN[0] = 0;
PATSGL_COMQUAL = 0;
                                                                                                                                                     ! Reset the current symbol table to be user-
                                                                                                                                                        Allow no substitution instructions
                                                                                                                                                      ! Set no qualifiers specified
                           3358
3359
                            3360
                                           Now release any symbolic name descriptors used for this command. The commands
                                            which have these string descriptors are: ALIGN, SET MODULE, CANCEL MODULE,
    and DEFINE.
                                        if (.PAT$GL_SEMAN1[.SEMSP] EQL ALIGN_TOKEN) OR
    (.PAT$GL_SEMAN1[.SEMSP] EQL DEFINE_TOKEN) OR
    (.PAT$GL_CONTEXT[MODULE_BIT])
                           3364
3365
3366
3367
3368
3370
3371
3372
3373
                                        THEN
                                                      POINTER = .PAT$GL_HEAD_LST;
WHILE .POINTER NEGA 0
                                                      DO
                                                                   DESC_PTR = .LIST_ELEM_EXP1(.POINTER);
PAT$FREERELEASE(.DESC_PTR, ((.DESC_PTR[DSC$w_LENGTH] + 3) /A_LONGWORD) + 2);
POINTER = .LIST_ELEM_FLINK(.POINTER);
                                                                    END:
                                                      END:
                                         ! Free all storage used in argument accumulation and pathname building.
                                        PATSFREE_ARG ();
PATSDELETE_PATH ();
     3442344567890123456
3444567890123456
                                           Now release any temporary buffer storage used to deposit new values into memory. This is for commands REPLACE, INSERT, and DEPOSIT.
                                         IF (.PATSGL_TEMP_BUF[DSCSW_LENGTH] NEQ 0)
                           3390
3391
                                         THEN
                                                      PATSFREERELEASE ( .PATSGL_TEMP_BUF[DSC$A_POINTER], (.PATSGL_TEMP_BUF[DSC$W_[ENGTH] + 3)/4);

PATSGL_TEMP_BUF[DSC$W_LENGTH] = 0;

PATSGL_TEMP_BUF[DSC$A_POINTER] = 0;
                                                      END:
```

```
16-Sep-1984 00:23:16
14-Sep-1984 12:52:23
PATACT
VO4-000
                                                                                                                                       VAX-11 Bliss 32 V4.0-742
DISK$VMSMASTER: [PATCH.SRC]PATACT.B32;1
                                        Now release any relocation buffer storage used to deposit new instructions into memory. This is for commands REPLACE and INSERT.
                         3400
                         3401
3402
3403
3404
3406
3406
3408
                                    IF (.PATSGL_RLOC_BUF[DSC$W_LENGTH] NEQ 0)
     360
     361
362
363
                                     THEN
                                                 BEGIN
                                                 PATSFREERELEASE ( .PATSGL_RLOC_BUF[DSC$A_POINTER],

(.PATSGL_RLOC_BUF[DSC$W_[ENGTH] + 3)/4);

PATSGL_RLOC_BUF[DSC$W_LENGTH] = 0;

PATSGL_RLOC_BUF[DSC$A_POINTER] = 0;
     364
365
     366
367
                         3409
     368
369
370
                         3410
3411
3412
3413
3414
3416
3417
3418
                                       Now release any temporary buffer storage used for the new contents assembler
     371
                                        directive table.
     372
373
                                     IF (.PAT$GL_NEW_ASD[DSC$W_LENGTH] NEQ 0)
     374
375
                                     THEN
                                                 PATSFREERELEASE ( .PATSGL_NEW_ASD[DSC$A_POINTER],

(.PATSGL_NEW_ASD[DSC$W_[ENGTH] + 3)/4);

PATSGL_NEW_ASD[DSC$W_LENGTH] = 0;

PATSGL_NEW_ASD[DSC$A_POINTER] = 0;
     376
                         3421
3421
3422
3423
3423
3425
3427
     378
379
     380
                                                 END:
     381
     382
383
                                       Now release any temporary buffer storage used for the old contents assembler
     384
385
                                        directive table.
                         3427
3428
3429
3430
3431
3432
     386
387
                                    IF (.PATSGL_OLD_ASD[DSC$W_LENGTH] NEQ 0)
                                     THEN
     388
                                                 389
     390
     391
                         3434
3435
     392
     393
                                                 END:
                         3436
3437
3438
     394
395
     396
397
                                     ! There may also be some ForWard Reference table (FWR) to be released.
                         3439
     398
                                     WHILE (.PATSGL_FWRLHD NEGA 0)
     399
                                     DO
     400
                                                 BEGIN
    401
                                                 LOCAL
    402
                                                             TEMP_PTR : REF BLOCK[,BYTE];
                                                 TEMP_PTR = .PATSGL_FWRLHD;
PATSGL_FWRLHD = .TEMP_PTR[FWR$L_FLINK];
PATSFREERELEASE(.TEMP_PTR, (FWR$C_SIZE + 3)/4);
    404
    406
                                                 END:
    408
                         3450
                                       Now release any space used temporarily for symbolic instruction labels on old contents of locations.
     409
     410
                                     WHILE (.DLL_RLINK(.PAT$GL_OLDLABLS) NEQA .PAT$GL_OLDLABLS)
```

```
PATACT
VO4-000
                                                                                                                                                          VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[PATCH.SRC]PATACT.B32;1
                                                        BEGIN
POINTER = .DLL_RLINK(.PAT$GL_OLDLABLS);
DLL_RLINK(.PAT$GL_OLDLABLS) = .DLL_RLINK(.POINTER);
PAT$FREERELEASE(.POINTER, (.SYM_CHCOUNT(.POINTER) + 1 + 3)/4 + OVERHEAD_SYM - 1);
     4156789012345678901234567890123
                            Now release any space used temporarily for un-relocated symbolic instruction
                                          ! labels on new contents of locations.
                                          WHILE (.DLL_RLINK(.PAT$GL_NEWLABLS) NEQA .PAT$GL_NEWLABLS)
                                                        BEGIN
PCINTER = .DLL_RLINK(.PAT$GL_NEWLABLS);
DLL_RLINK(.PAT$GL_NEWLABLS) = .DLL_RLINK(.POINTER);
PAT$FREERELEASE(.POINTER, (.SYM_CHCOUNT(.POINTER) + 1 + 3)/4 + OVERHEAD_SYM - 1);
                                             Now release any space used temporarily for relocated symbolic instruction labels on old contents of locations.
                                          WHILE (.DLL_RLINK(.PAT$GL_RLCLABLS) NEQA .PAT$GL_RLCLABLS)
                                                        BEGIN
                                                        POINTER = .DLL_RLINK(.PAT$GL_RLCLABLS);
DLL_RLINK(.PAT$GL_RLCLABLS) = .DLL_RLINK(.POINTER);
PAT$FREERELEASE(.POINTER, (.SYM_CHCOUNT(.POINTER) + 1 + 3)/4 + OVERHEAD_SYM - 1);
                                                        END:
                                      1 END;
                                                                                                                                                PATACT
\V04-000\
                                                                                                                                   .TITLE
                                                                                                                                   . IDENT
                                                                                                                                   .PSECT
                                                                                                                                                _PAT$PLIT, NOWRT, NOEXE, 0
                                                                                                         00000 P.AAA:

00004 P.AAB:

00009 P.AAC:

00011 P.AAD:

0001E P.AAE:

00024 P.AAF:

0002B P.AAG:

00035 P.AAH:

0003F P.AAJ:

0003F P.AAJ:

00044 P.AAK:

00047 P.AAL:
                                                                                                                                                <3>\AL \
<4>\CA M\
<7>\CA MODU\
<12>\CA MODU /ALL\
                                                                                                                                  .ASCII
                                                                                                  0347056953422223253335
                                                                             222222222244
                                                                                           44444444422552444445
                                                                      444550E5
                                                                                                                                   .ASCII
                                                                                                                                                <5>\CA SC\
<6>\CA PAT\
<9>\CH NOT EC\
<5>\CH EC\
<3>\DEF\
                                                                                                                                    ASCII
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                                   43 45 20
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                                                                                                                   P. AAM:
                                                                                                                                    ASCII
                                                                              49
                                                                                                                    P.AAN:
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                                                                                                                                                <3>\EXI\
                                                                                                                   P.AAO:
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                                                                                                                   P.AAP:
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                                                                                                                                    ASCII
                                                                                                                   P.AAQ:
P.AAR:
P.AAS:
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                                                                                                                                                <3>\!AD\
                                                                                                                                                <3>\RE \
                                                                                                                                   .ASCII
                                                                                                                                                 <5>\SE EC\
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```
G 14
16-Sep-1984 00:23:16
14-Sep-1984 12:52:23
PATACT
VO4-000
                                                                                                                                                        VAX-11 Bliss-32 V4.0-742 Pag
DISK$VMSMASTER:[PATCH.SRC]PATACT.B32;1
                                                                                                       0006C P.AAU:
00071 P.AAV:
00079 P.AAW:
                                                                                                                                              <4>\SE M\
<7>\SE MODU\
<12>\SE MODU /ALL\
<6>\SE PAT\
<5>\SE SC\
                                                                                                                                .ASCII
.ASCII
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                                                                            4C 4C 41 2F 20
                                                                                                        00086 P.AAX:
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00093 P.AAZ:
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<7>\SH MODU\
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<5>\^X!XL\
                                                                                                        000A6 P.ABC:
                                                                                                        000A8 P.ABD:
                                                                     58
                                                                                   5809FF51
                                                                            21
                                                                                                        OOOAE P.ABE:
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                                                                                                        000B1 P.ABF:
000B5
000B9
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                                                                                                                                               \/WOR\
                                                                                                                                 .ASCII
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                                                                                                        000BD
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000C1

.ASCII \/QUA\ \/PAG\ .ASCII ISESC\_SIZE==
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ALIGN\_CMD=
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CAN P.AAA P.AAB P.AAC P. AAD P.AAE P.AAF P.AAG P. AAH P.AAI P.AAJ P.AAK P.AAL P. AAM P. AAN P.AAO P.AAP P.AAQ P.AAR P.AAS P.AAT P.AAU P.AAV P.AAW P.AAX P.AAY P.AAZ P.ABA P.ABB P.ABC P. ABD P.ABE ALIGN\_QUAL\_TBL= P.ABF .EXTRN PATSFAO\_OUT, LBR\$OUTPUT\_HELP LIB\$GET\_INPUT, LIB\$PUT\_OUTPUT PAT\$ADD\_PAL, PAT\$ALIGN\_CMD .EXTRN

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16-Sep-1984 00:23:16 VAX-11 Bliss-32 V4.0-742 Page 14-Sep-1984 12:52:23 DISK$VMSMASTER:[PATCH.SRC]PATACT.B32;1
                                                                                                                                                                                                                               PATSCELETE PATH
PATSCANC MODULE
PATSDELETE PATH
PATSCANC MODULE
PATSDEFIRE SYM, PATSDEPOSIT CMD
PATSFACO PUT, PATSFILL BUF
PATSFACO PUT, PATSFILL BUF
PATSFREE ARG, PATSFREERLASE
PATSINIT MODES, PATSMAP ADDR
PATSOUT MEM LOC
PATSOUT PAL EXP
PATSSET CONTEXT
PATSSET MODULE, PATSSET MOD LST
PATSSET MODULE, PATSSET MOD LST
PATSSET NEW MOD
PATSSET NEW MOD
PATSSET NEW MOD
PATSSHOW DEFAL, PATSSHOW MODULE
PATSSHOW DEFAL, PATSWRITE INS
PATSWRITE ILE, PATSWRITE INS
PATSWRITE NAME, PATSWRITE INS
PATSGE HELP LIN
PATSGE COPP PATSWRITE INS
PATSGE HELP LIN
PATSGE EXEC CMD
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                                                                                                                                                                                                                                        ACCESS_CHECK
                                                                                                                                                                                                       . WEAK
                                                                                                                                                                                                      .PSECT
                                                                                                                                                                                                                                       _PAT$CODE,NOWRT,2
                                                                                                                     03FC 00000
                                                                                                                                                                                                                                        PATSEND_OF_CMD, Save R2,R3,R4,R5,R6,R7,R8,- ; 3285
                                                                                                                                                                                                       .ENTRY
                                                                                                                           9E 00002
9E 00009
9E 00010
9E 00017
9E 0001E
9E 00025
DO 0002C
                                                                                                                                                                                                                                       PATSGL_FWRLHD, R9
PATSGL_OLD_ASD, R8
PATSGL_NEW_ASD, R7
PATSGL_RLOC_BUF, R6
PATSGL_TEMP_BUF, R5
                                                59 00000000G
58 0000000G
                                                                                                                                                                                                      MOVAB
                                                                                                           00
00
00
00
00
00
01
                                                                                                                                                                                                      MOVAB
                                                           000000006
                                                                                                                                                                                                      MOVAB
                                                            00000000G
                                                                                                                                                                                                      MOVAB
                                                           00000000G
                                                                                                                                                                                                      MOVAB
                                                                                                                                        00025
0002C
00037
                                                                                                                                                                                                                                        PATSFREERELEASE, R4
PATSGL_SYMHEAD, PATSGL_SYMTBPTR
                                               54 000000006
00 000000006
                                                                                                                                                                                                      MOVAB
0000000G
                                                                                                                                                                                                      MOVL
                                                                                                                                                                                                                                                                                                                                                                                                                                              3352
3353
                                                                                                                             DD
                                                                                                                                                                                                      PUSHL
                                                                                                                                                                                                     PUSHL
                                                                                                                                                                                                                                       #2, PATSINIT_MODES
                                                                                                                                          00039
                                                                                                                             DD
                                                                                                                             FB
                                                                                                                                                                                                     PUSHL
00000000G 00
                                                                                                                                                                                                                                                                                                                                                                                                                                        : 3354
```

					1	I 14 6-Sep-19 4-Sep-19	84 00:23 84 12:52	16 VAX-11 Bliss-32 V4.0-742 Pag 23 DISK\$VMSMASTER:[PATCH.SRC]PATACT.B32;1	e 14 (3)
	00000000G	00	00000000	01	FB 00044 FB 0004B		CALLS	#1, PAT\$SET_MOD_LVL #0, PAT\$SET_CONTEXT PAT\$GB_SUBST_IN PAT\$GL_COMQUAL SEMSP, R0 PAT\$GL_SEMAN1[R0], R0 R0, #1	3355
		50	000000006 000000006	00 00 AC	FB 0004B 94 00052 04 00058 00 0005E		CLRB	PATSGL_COMQUAL :	3355 3356 3357 3364
		50 50 01	000000000000000000000000000000000000000	40 50	DO 00062		CLRL MOVL MOVL CMPL	PATSGL_SEMAN1[RO], RO	3304
		05			D1 0006A 13 0006D D1 0006F 13 00072		CMPL	RO, #5	3365
			0000000G	00 00 00 00 00 00 00 00 00	95 00074		TSTB	1\$ PATSGL_CONTEXT	3366
		52	0000000G	00 1A	18 0007A 00 0007C 13 00083	15:	BGEQ MOVL BEQL	PATSGL_HEAD_LST, POINTER	3369
		53 50 50	04	A2 63 03	DO 00085		MOVL	4(POINTER) DESC PTR	3369 3370 3373 3374
		50 50	00	04	CO 0008C		ADDL2 DIVL2 PUSHAB	(DESC_PTR), RO ; #3, RO ; #4, RO ; 2(RO)	
		64	02	53 02	9F 00092 DD 00095 FB 00097 DO 0009A		PUSHAB PUSHL CALLS	DESC PTR #2. PAT\$FREERELEASE	
		52		62 E4	11 00090		MOVL BRB	(PUINIER) - PUINIER	3375 3370
	00000000G	00 00 50		00	FB 0009F	3\$:	CALLS CALLS MOVZWL	#0, PATSFREE ARG #0, PATSDELETE PATH	3375 3370 3382 3383 3389
				A3322240005234525	3C 000AD 13 000BO CO 000B2		MOVZWL ADDL2	4\$	3393
7E		50	04	04 A5	CO 000B2 C7 000B5 DD 000B9		DIVL3 PUSHL	#3, R0 #4, R0, -(SP) PATSGL TEMP BUF+4	3392
		64		02	FB 000BC		CALLS	#2, PATSFREERELEASE PATSGL_TEMP_BUF	3394 3395
		50	04	A5 66	D4 000C1	45:	MOVZWL	PATSGL_TEMP_BUF+4 #2, PATSFREERELEASE PATSGL_TEMP_BUF PATSGL_TEMP_BUF+4 PATSGL_RLOC_BUF, RO	3395
7E		50		03	13 000C7 C0 000C9 C7 000C0		ADDL2	#3, R0 #4, R0, -(SP)	3406
		64	04	A6 02	DD 000D0 FB 000D3 B4 000D6		PUSHL	PATSGL RLOC BUF+4  #2, PATSFREERELEASE	3405
			04	66 A6	D4 00008		CLRW	PATSGL_RLOC_BUF PATSGL_RLOC_BUF+4	3407 3408
		50		123 046 066 67 047 067 067	3C 000DB	5\$:	BEQL ADDL2 DIVL3 PUSHL CALLS CLRW CLRL MOVZWL BEQL ADDL2 DIVL3 PUSHL CALLS CLRW CLRL MOVZWL	PATSGL_RLOC_BUF, RO  5\$  #3, RO  #4, RO, -(SP)  PATSGL_RLOC_BUF+4  #2, PATSFREERELEASE  PATSGL_RLOC_BUF  PATSGL_RLOC_BUF  PATSGL_RLOC_BUF+4  PATSGL_NEW_ASD, RO  6\$  #3, RO  #4, RO, -(SP)  PATSGL_NEW_ASD+4	3415
7E		50	04	04 A7	CO 000E0 C7 000E3 DD 000E7		DIVL3 PUSHL	#4, RO, -(SP) PATSGL NEW ASD+4	3418
		64		02 67	DD 000E7 FB 000EA B4 000ED		CALLS	#2, PATSFREERELEASE PATSGL_NEW_ASD ;	3420 3421
		50	04	68 13	13 0000E CO 000E C7 000E DD 000E FB 000E B4 000E B4 000E TO 000F CO 000F CO 000F CO 000F	6\$:	MOVZWL	#4, RO, -(SP) PATSGL NEW ASD+4 #2, PATSFREERELEASE PATSGL_NEW_ASD PATSGL_NEW_ASD+4 PATSGL_OLD_ASD, RO	3428
7E		50		68 103 048 068 80 80 80 80 80 80 80 80 80 80 80 80 80	CO 000F7		ADDL2	7\$ #3, R0 #4, R0, -(SP) PATSGL_OLD_ASD+4 #2, PATSFREERELEASE PATSGL_OLD_ASD PATSGL_OLD_ASD+4	3432
		64	04	8A 20	FB 00101		DIVL3 PUSHL CALLS	PATSGL OLD ASD+4 #2, PATSFREERELEASE	3431
			04	68 A8	B4 00104 04 00106		CLRW	PATSGL_OLD_ASD PATSGL_OLD_ASD+4	3433 3434

				1	J 14 6-Sep- 4-Sep-	1984 00:23 1984 12:52	:16 VAX-11 Bliss-32 V4.0-742 Page 23 DISK\$VMSMASTER:[PATCH.SRC]PATACT.B32;1	ge (15)
50		69	DO	00109	75:	MOVL	PAT\$GL_FWRLHD, RO	: 3440
69		20	DO DO DO FB	00100		MOVL	8\$ (TEMP_PTR), PAT\$GL_FWRLHD	3446
07		06	DD	0010E 00111		PUSHL	#6	3447
64		50	DD	00113		PUSHL	TEMP_PTR #2, PATSFREERELEASE	
04		60 60 50 E0 E0	11	00118		CALLS BRB	7\$	3440
50	0000000G	00	DO	0011A	8\$:	MOVL	PATSGL_OLDLABLS, RO	3454
		60 1A	DO D1 13	00121		BEQL	(RO), RO 9\$	
52		60 62 A2	DO DO 9A	00126		MOVL	(RO), POINTER	3457
50	OC	A2	9A	00120		MOVL	12(POINTER), RO	3459
52 60 50 50		04	CO	00130		ADDL2	#4, R0	
30	03	04 A0	C6 9F	00136		MOVZBL ADDL2 DIVL2 PUSHAB	(RO), POINTER (POINTER), (RO) 12(POINTER), RO #4, RO #4, RO 3(RO)	
41		A0 52 02	FB	00139		PUSHL	POINTER #2, PAT\$FREERFLEASE	
64		DA	11	0013B 0013E		CALLS BRB	8\$	3454
50	0000000G	00	DO	00140	9\$:	MOVL	PATSGL_NEWLABLS, RO	: 3466
50		60 1A	D1 13	00147 0014A		BEQL	(RO), RO 10\$	
52		60	DO	00140		MOVL	(RO), POINTER	3469
50	00	60 62 A2	D0	0014F 00152 00156		MOVL	(RO), POINTER (POINTER), (RO) 12(POINTER), RO	3470
52 60 50 50	•	04	CO	00156		ADDL2 DIVL2	#4, RO	
50	03	04	C6 9F	00159 00150		PUSHAB	#4, R0 3(R0)	
	03	A0 52 02	DD	0015F		PUSHL	POINTER	
64		02 DA	FB 11	00161		CALLS BRB	#2, PAT\$FREERELEASE	3466
50	000000006	00	DO	00166	10\$:	MOVL	PAT\$GL_RLCLABLS, RO	: 3478
50		60 1A	D1 13	0016D 00170		CMPL BEQL	(RO), RO	
52		60	DO	00172		MOVL	(RO), POINTER (POINTER), (RO) 12(POINTER), RO #4, RO #4, RO 3(RO)	3481 3482 3483
60	ОС	62	D0	00175		MOVL MOVZRI	(POINTER), (RO)	3483
52 60 50 50	00	60 62 A2 04	CO	00170		MOVZBL ADDL2 DIVL2 PUSHAB	#4, RO	:
50	03	04	66 9F	11100		DIVLZ	#4, R0	
	03	04 52 02 DA	DD	00182 00185		PUSHL	PUINIFR	
64		02	FB 11	00187		CALLS BRB	#2. PATSFREERELEASE 10\$	3478
		-	04	00187 0018A 0018C	115:	RET		3478

; Routine Size: 397 bytes. Routine Base: \_PAT\$CODE + 0000

```
K 14
16-Sep-1984 00:23:16
14-Sep-1984 12:52:23
                                                                                                                     VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[PATCH.SRC]PATACT.B32;1
PATACT
VO4-000
                                GLOBAL ROUTINE PATSEND_OF_LINE (SEMSP) : NOVALUE =
   FUNCTIONAL DESCRIPTION:
                                          Calls the PATSEND_OF_CMD to reset all patch context that is exclusive to a singe PATCH command. This includes resetting default modes from single line overrides back to the actual default modes and
                                          resetting a large number of context bits. In addition, any free storage required temporarily is released.
                                          Also, the command line buffer is released.
                                  CALLING SEQUENCE:
                                          PATSEND_OF_LINE (SEMSP)
                                  INPUTS:
                                          SEMSP - Offset to command verb on parse stack
                                  IMPLICIT INPUTS:
                                          PATSCP_INP_DSCS - Address of vector of command line buffer descriptors,
                                                                   first longword of which is count of descriptors
                                  OUTPUTS:
                                          none
                                  IMPLICIT OUTPUTS:
                                          none
                                  ROUTINE VALUE:
                                          none
                                  SIDE EFFECTS:
                                          Defaults are reestablished. The command line buffer space is released.
                                !--
                                BEGIN
                                LOCAL
                                           temp_loc;
                                  This routine guarantees the internal consistency of PATCH, and must succeed or give up.
                                PATSEND_OF_CMD(.SEMSP);
                      3540
3541
3542
                                  Now release the command line buffer space.
```

```
L 14
16-Sep-1984 00:23:16
14-Sep-1984 12:52:23
PATACT
VO4-000
                                                                                                                                                    VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[PATCH.SRC]PATACT.B32;1
    503
504
506
507
508
511
513
514
515
                           INCR LOOP FROM 1 TO .PATSCP_INP_DSCS[0]+2 BY 2
                                                      IF .PATSCP_INP_DSCS[.LOOP] NEQ 0 THEN
                                                                   END
                                                      ELSE
                                                                    RETURN;
                                        END:
                                                                                             001C 00000
9E 00002
DD 00009
                                                                                                                             .ENTRY
                                                                                                                                          PATSEND_OF_LINE, Save R2,R3,R4
PATSCP_INP_DSCS, R4
                                                                                                                                                                                                                        3486
                                                                  54 00000000G
                                                                                04 A0423
04 A0423
                                                                                                                             MOVAB
                                                                                                                                                                                                                        3539
                                                                                                                             PUSHL
                                                                                                                                           SEMSP
                                                                                                    00009
00000
00011
00014
00018
0001B
0001D 1$:
                                                                                                                                          #1, PATSEND OF CMD
PATSCP INP DSCS, RO
#1, (RO), R3
                                                                 CF
50
60
52
                                                                                                FB
DO
78
CE
11
                                                      FE62
                                                                                                                             CALLS
                                                                                                                                                                                                                        3544
                                                                                                                             MOVL
                                          53
                                                                                                                             ASHL
                                                                                                                             MNEGL
                                                                                                                                           #1, LOOP
                                                                                                                             BRB
                                                                  50
                                                                                                                             MOVL
                                                                                                                                          PATSCP_INP_DSCS, RO
(RO)[LOOP]
                                                                                                                                                                                                                        3546
                                                                                                DO
                                                                                                     00020
00023
00025
0002A
                                                                                                D5
13
C1
C7
                                                                                                                             BEQL
ADDL3
                                                                                                                                          3$
#3, (R0)[L00P], R1
#4, R1, -(SP)
4(R0)[L00P]
#2, PAT$FREERELEASE
PAT$CP_INP_DSCS, R0
(R0)[L00P]
4(R0)[L00P]
R3, #2, L00P, 1$
                                          51
7E
                                                              6042
                                                                                                                                                                                                                        3550
                                                                                                                             DIVL3
PUSHL
CALLS
                                                                                                     0002E
00032
                                                                                                                                                                                                                        3549
                                                                                                DD
                                                                                                FB
DO
                                                                 00
50
                                               0000000G
                                                                                                     00039
                                                                                                                             MOVL
                                                                                                                                                                                                                        3551
                                                                                                                             CLRL
                                                                                                D4
                                                                                                     00030
                                                                                                                                                                                                                        3552
3546
3556
                                                                                                     0003F
                                                                                                     00043 2$:
00049 3$:
                                                                                                                             ACBL
               FFD4
                                          52
                                                                  02
```

; Routine Size: 74 bytes. Routine Base: \_PAT\$CODE + 018D

VO

```
N 14
16-Sep-1984 00:23:16
14-Sep-1984 12:52:23
                                                                                                                         VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[PATCH.SRC]PATACT.B32;1
PATACT
VO4-000
   (.PATSGB_EXEC_CMD) OR
(.PATSGL_CONTEXT[SET_ECO]) OR
(.PATSGL_SEMAN1[.SEMSP] EQL_EXIT_TOKEN)
                                            BEGIN CASE .PATSGL_SEMAN1 [.SEMSP] FROM ALIGN_TOKEN TO VERIFY_TOKEN OF
                                            SET
                                            [ALIGN_TOKEN]:
                                                       IF .PATSGL_FLAGS [PATSS_ABSOLUTE]
                                                            SIGNAL (PATS_INVCMDABS)
                                                            PATSALIGN_CMD ();
                                            [CANCEL_TOKEN]:

IF .PATSGL_CONTEXT[MODE_BIT]

THEN
                                                            PATSRESET_DEF()
                                                           .PATSGL_FLAGS [PATSS_ABSOLUTE]
                                                      ELSE SIGNAL (PATS_INVCMDABS)
                                                       SELECTONE TRUE OF
                                                       [.PAT$GL_CONTEXT[PAT_AREA_BIT]]:
PAT$GL_PATAREA = CH$PTR(PAT$GL_IHPPTR[IHP$L_RW_PATSIZ], 0);
                                                       [.PAT$GL_CONTEXT[MODULE_BIT]]:
PAT$CANC_MODULE();
                                                       PAT$GL_CONTEXT[SCOPE_BIT]]:
PAT$SAVE_SCOPE(FALSE);
    611
   612
                                                       TES:
   614
                                            [CHECK_TOKEN]:
                                                       IF .PATSGL_FLAGS [PATSS_ABSOLUTE]
THEN
   616
617
618
619
                                                            SIGNAL (PAT$_INVCMDABS)
                                                            PATSECO_CMDS ();
   620
621
623
624
625
626
627
628
630
                                            [CREATE_TOKEN]:
PATSOPEN_COMFIL(0, 0);
                                            [DEFINE_TOKEN]:
                                                       LOCAL
                                                                  POINTER:
```

```
B 15
PATACT
VO4-000
                                                                                                                                                                                                                         16-Sep-1984 00:23:16
14-Sep-1984 12:52:23
                                                                                                                                                                                                                                                                                                          VAX-11 Bliss-32 V4.0-742 Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles P
                                                                                                                                        POINTER = .PATSGL_HEAD_LST;
         WHILE (.POINTER NEQ 0)
                                                                                                                                                                   BEGIN
                                                                                                                                                                   PATSDEFINE_SYM (.LIST_ELEM_EXP1 (.POINTER), .LIST_ELEM_EXP2 (.POINTER), TRUE);
POINTER = .LIST_ELEM_FLINK (.POINTER);
                                                                                                                                        END:
                                                                                                             [DELETE_TOKEN]:
                                                                                                                                        PATSGL_CONTEXT [DELETE_BIT] = TRUE;
                                                                                                                                        PATSDEPOSIT_CMD ();
                                                                                                                                        END:
                                                                                                            [DEPOSIT_TOKEN]: PAT$DEPOSIT_CMD ();
                                                                                                             [EXAMINE_TOKEN]:
                                                                                                                                        PATSGL_CONTEXT [EXAMINE_BIT] = TRUE;
                                                                                                                                        PATSEXAMINE_CMD ();
                                                                                                                                        END:
                                                                                                             [EVALUATE_TOKEN]:
          656
                                                                                                                                        BEGIN
                                                                                                                                        LOCAL
                                                                                                                                                                   POINTER;
                                                                                                                                        POINTER = .PATSGL_HEAD_LST;
                                                                                                                                        WHILE (.POINTER NEQ 0)
          660
          661
                                                                                                                                        DO
                                                                                                                                                                   BEGIN
                                                                                                                                                                   PATSOUT_MEM_LOC (LIST_ELEM_EXP1 (.POINTER), 0, CASE_TABLE);
POINTER = .CIST_ELEM_FLINK (.POINTER);
          663
          664
          665
                                                                                                                                                                   END:
          666
                                                                                                                                        END:
          667
          668
                                                                                                             [EXIT_TOKEN]:
                                                                                                                                        BEGIN
                                                                                                                                        PATSGB_TAKE_CMD = FALSE;
IF (.PATSGL_FLAGS AND PATSM_UPDATE) NEQ 0
          674
                                                                                                                                                                   ECOLVL PTR = CH$PTR(PAT$GL_IHPPTR[IHP$L_ECO1], 0);
INCR BIT_NUMBER FROM PAT$K_MIN_ECO-1 TO PAT$K_MAX_ECO-1
                                                                                                                                                                                              IF .PAT$GL_ECO_UPD[.BIT_NUMBER]
THEN
          677
          678
                                                                                                                                                                                                                          IF NOT .ECOLVL_PTR[.BIT_NUMBER]
           680
                                                                                                                                                                                                                          THEN
           681
                                                                                                                                                                                                                                                     SIGNAL (PAT$_NOUPDATE, 1, .BIT_NUMBER+1);
                                                                                                                                                                   END:
                                                                                                                                        END:
                                                                                                             [HELP_TOKEN]:
                                                                                                                                        LBRSOUTPUT_HELP (LIBSPUT_OUTPUT,,PATSGL_HELP_LIN, %ASCID 'PATCHHELP', %REF (HELP_FLAGS), LIB
```

```
16-Sep-1984 00:23:16
14-Sep-1984 12:52:23
PATACT
VO4-000
                                                                                                                                                                                                                                                                                                                                                                                                                                                  VAX-11 Bliss-32 V4.0-742 Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles P
                                                                                                                                                            CINSERT_TOKEN]:
    BEGIN
    IF (NOT .PAT$GB_MOD_PTR[MODE_INSTRUC])
             PATSGL_CONTEXT [INSERT_BIT] = TRUE;
                                                                                                                                                                                                      PATSREPLACE_CMD ();
                                                                                                                                                            [REPLACE_TOKEN]: PAT$REPLACE_CMD ();
                                                                                                                                                             [SET_TOKEN]:
                                                                                                                                                                                                     IF .PAT$GL_CONTEXT[MODE_BIT]
THEN
                                                                                                                                                                                                                                             BEGIN
                                                                                                                                                                                                                                                    The "SET MODE" command verb must be written to the indirect command file here as the modes to be "SET" are output in PAT$SET_MOD_LST and the information lost. Therefore, only the "EXIT" to the "NEW>" prompt will be output in the routine, WRITE_CMD.
                                                                                                                                                                                                                                             PAT$WRITEFILE(.SET_MODE_CMD[0], SET_MODE_CMD[1], PAT$GL_COMRAB);
                                                                                                                                                                                                                                             PATSSET_MOD_LST (USER_DEF_MODE);
                                                                                                                                                                                                    ELSE
                                                                                                                                                                                                      IF .PAT$GL_FLAGS [PAT$S_ABSOLUTE]
                                                                                                                                                                                                                        SIGNAL (PATS_INVCMDABS)
                                                                               3760
                                                                                                                                                                                                   SELECTONE TRUE OF
                                                                               3761
                                                                               3762
3763
3764
3765
3766
3767
3768
3769
3770
                                                                                                                                                                                                    [.PAT$GL_CONTEXT[SCOPE_BIT]]:
                                                                                                                                                                                                                                            PAT$SAVE_SCOPE (TRUE);
                                                                                                                                                                                                    [.PATSGL_CONTEXT[SET_ECO]]:
                                                                                                                                                                                                                                           PATSECO_CMDS ();
                                                                                                                                                                                                    [.PAT$GL_CONTEXT[PAT_AREA_BIT]]:
                                                                               3771
3772
3773
                                                                                                                                                                                                                                           PATSMAP_ADDR(.LIST_ELEM_EXP1(.PATSGL_HEAD_LST),
PATSGL_PATAREA, ISE_PTR);
                                                                               3774
3775
3776
3777
3778
3778
3781
3781
3782
3783
3784
                                                                                                                                                                                                                                           The SET PATCH AREA command may have a /INITIALIZE=size expression qualifier included. If its present, then check first that the size value is not larger than the patch area. If size is to big then, we assure that sufficient space exists to accommodate the patch area descriptor plus a longword (12 bytes). If space does exists then we set the default size to the size of the unused portion of the patch area image section, informing the user of course. Else, we signal an informative error message stating the address and amount of space available. Next, check to make sure that the patch area has not already
```

```
VO
```

```
PATACT
VO4-000
                                                                                                              16-Sep-1984 00:23:16
14-Sep-1984 12:52:23
                                                                                                                                                       VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[PATCH.SRC]PATACT.B32;1
                                                                                   been initialized. If it has, issue a warning to the user and set up the descriptor info. If it has not been previously initialized then take the size value and insert it into the first long word of the patch area and
     745
746
747
                            3785
37867
37887
37889
37791
37791
37795
37796
37798
37798
     7489
7501
751
753
755
755
755
755
755
759
                                                                                    set the second long word to point to the succeeding long word (eg. .+4).
                                                                                    *** NOTE *** The size value that is inserted into the first long word is reduced by 8 (the size of the descriptor) to reflect the fact that
                                                                                      we have eaten up this space with the descriptor.
                                                                                                Also note, that since the address of the patch area is synomous
                                                                                      with the address of the patch area descriptor, updating the pointer
                                                                                     PATSGL_PATAREA is not necessary.
                                                                                                IF (.PATSGL_CONTEXT [INIT_PAT_BIT]) THEN
BEGIN
BIND PATCH_AREA = .PATSGL_PATA
     760
761
                            3800
                                                                                                                           PATCH_AREA = .PAT$GL_PATAREA : VECTOR [, LONG],
FIRST_AVAIL_ADR = LIST_ELEM_EXP1[.PAT$GL_HEAD_LST],
INITIAL_SIZE = LIST_ELEM_EXP2[.PAT$GL_HEAD_LST];
     762
763
764
765
                            3802
3803
                            3804
3805
3806
3807
                                                                                                              LOCAL
     766
767
768
769
770
                                                                                                                            AVAIL BYTE CNT, ISD_PTR : REF BLOCK [, BYTE];
                                                                                                                                                                                                 !Number of available
                                                                                                                                                                                                 !Points to the curre
                           3808
3809
                                                                                                              ISD_PTR = CH$PTR (.ISE_PTR, ISE$C_SIZE);
AVAIL_BYTE_CNT = (.ISD_PTR(ISD$W_PAGCNT) * 512)
                           771
                                                                                                                                         - (.FIRST_AVAIL_ADR - (.ISD_PTR[ISD$L_VPNPFC] * 512)
     772
773
774
                                                                                                              IF (.AVAIL_BYTE_CNT LSS 12) THEN
BEGIN
                                                                                                                                                                                                 !Can we accomodate t
                                                                                                                           BEGIN ! a longword (total SIGNAL (PAT$ NOPATAREA, 2, .FIRST_AVAIL_ADR, .AVAIL_BYTE_CNT PAT$END_OF_LINE (.SEMSP); !Clean up after ours
     775
     776
     777
                                                                                                                            RETURN FALSE
                                                                                                                                                                                                 !Go process next com
     778
779
                                                                                                                            END:
                                                                                                              IF ((.INITIAL_SIZE LEQ 0) OR (.INITIAL_SIZE GTR .AVAIL_BYTE_CNT)) THE BEGIN !Set the default pat
     780
     781
782
783
784
785
786
787
788
791
792
793
796
797
798
                                                                                                                            INITIAL_SIZE = .AVAIL_BYTE_CNT; | available space in IF (.PATCH_AREA[0] LEQ 0) THEN | Should the user be SIGNAL(PAT$_BADINITSZ, 1, .INITIAL_SIZE - 8); YES, they will
                            3824
3825
3826
3827
3828
3829
3830
3831
                                                                                                                                                                                                 !signalling the adju
                                                                                                              IF (.PATCH_AREA[O] LEQ 0) THEN
BEGIN
                                                                                                                                                                                                 !Initialize a descri
                                                                                                                            PATCH_AREA[0] = .INITIAL_SIZE - 8;
PATCH_AREA[1] = .FIRST_AVAIL_ADR + 8;
                                                                                                                                                                                                  area in the first t
                                                                                                                                                                                                  patch area. Adjust
                                                                                                                                                                                                 !address values to r
                                                                                                              ELSE
                                                                                                                            SIGNAL (PATS_PREVINIT);
                                                                                                                                                                                                 !Patch Area was prev
                                                                                                              END:
                                                                                   PAT$ADD_PAL(.PAT$GL_PATAREA[DSC$A_POINTER],
.PAT$GL_PATAREA[DSC$A_POINTER]+.PAT$GL_PATAREA[DSC$W_LENGTH],
      800
                                                                                                PALSK_ADD_PAREA);
     801
                                                                                   END:
```

```
E 15
16-Sep-1984 00:23:16
14-Sep-1984 12:52:23
PATACT
V04-000
                                                                                                                                                          VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[PATCH.SRC]PATACT.B32;1
     802
803
804
805
806
807
                                                                      [.PAT$GL_CONTEXT[MODULE_BIT]]:
    PAT$SET_MODULE(0);
                                                                      TES:
                                                        [SHOW_TOKEN]:
     808
809
                                                                      IF .PAT$GL_CONTEXT[MODE_BIT]
THEN
     810
811
812
813
814
815
816
817
818
                                                                             PAT$SHOW_DEFAL ()
                                                                      IF .PAT$GL_FLAGS [PAT$S_ABSOLUTE]
                                                                             SIGNAL (PATS_INVCMDABS)
                                                                      SELECTONE TRUE OF
     820
821
822
823
824
826
827
828
829
830
                            3861
3862
                                                                      [.PAT$GL_CONTEXT[SCOPE_BIT]]:
PAT$SHOW_SCOPE ();
                           [.PAT$GL_CONTEXT[MODULE_BIT]]:
    PAT$SHOW_MODULE();
                                                                      [.PAT$GL_CONTEXT[PAT_AREA_BIT]]:
                                                                                    $FAO_TT_OUT('current patch area size: !XL',
.PAT$GL_PATAREA[DSC$W_LENGTH]);
$FAO_TT_OUT('current patch area address:
.PAT$GL_PATAREA[DSC$A_POINTER]);
     831
832
833
834
835
836
837
838
839
                                                                                    END:
                                                                      TES:
                                                        [UPDATE_TOKEN]: PAT$WRTIMG();
                                                       [VERIFY_TOKEN]:
    BEGIN
    PAT$GL_CONTEXT[VERIFY_BIT] = TRUE;
    PAT$REPLACE_CMD ();
     840
841
842
843
844
845
846
                                                        [OUTRANGE]:

IF .PAT$GL_SEMAN1[.SEMSP] EQL EOL_TOKEN
     849
850
                                                                                    PATSEND OF LINE (.SEMSP);
RETURN FALSE
     851
852
853
                                                                                    END:
     854
855
856
857
                            3894
3895
                                                        TES;
END;
                            3896
                            3897
                                            Now output the command to the appended patch command text. Since the command
```

VC

```
PATACT
V04-000
                                                                                                                         VAX-11 Bliss-32 V4.0-742 Pag
DISK$VMSMASTER:[PATCH.SRC]PATACT.B32;1
                                    has already been successfully executed, call WRITE_CMD to reconstruct the command and write it to the command file, if desired. PAT$WRITEFILE
    859
860
861
863
864
865
866
867
868
870
                      3900
                                    handles output to the command file and to the appended patch command text
                                    buffers, PATSGL_TXTxxxx.
                                 WRITE_CMD(.SEMSP);
                      3905
3906
                      3907
3908
3909
3910
3911
3912
3913
3914
3915
3916
                                   Check for end of command line. If this is the end of the command line, then
                                    prompt for another command otherwise process the next command in this command
                                   line.
                                 IF (.PAT$GL_SEMAN1 [.SEMSP + PAT$K_SPOS_ONE] EQL EOL_TOKEN)
                                            PATSEND OF LINE (.SEMSP);
RETURN FALSE;
                                            END
                                 ELSE
                      3918
3919
                                            PATSEND_OF_CMD (.SEMSP);
                                 RETURN TRUE;
    881
                                    L1:3726
  INFO#212
: Null expression appears in value-required context
                                                                                                                 _PAT$PLIT,NOWRT,NOEXE,0
                                                                                                       .PSECT
                                                                                                       .BLKB
                                                                                                                  \PATCHHELP\<0><0><0>
                                                                                   000C8 P.ABH:
                                                                                                       .ASCII
                                                           43
                           00
                                                       48
                                                                     010E0009
                                                                                   000D4 P.ABG:
                                                                                                       .LONG
                                                                                                                 17694729
                                                                     00000000
                                                                                   8d000
                                                                                                       .ADDRESS P.ABH
                                                                                   000DC
                                                                                           P.ABI:
                                                                                                       .BYTE
                                                                                   000DD
                                                                                                       .ASCII
                                                                                                                 \current patch area size:\<9>\!XL\
                                                                                   OOOEC
                                                                                   000F9 P.ABJ:
                                                                                   000FA
                                                                                                       .ASCII
                                                                                                                 \current patch area address:\<9>\!XL\
                                                                                   00109
                                                                                   00118
                                                                                                       .PSECT
                                                                                                                 _PAT$CODE,NOWRT,2
                                                                            OFFC 00000
                                                                                                                 PAT$PERFORM_CMD, Save R2,R3,R4,R5,R6,R7,R8,-; 3557
                                                                                                       .ENTRY
                                                                                                                 PATSPERFORM_CMD, Save R2,
R9,R10,R11
P.ABG, R11
LIB$SIGNAL, R10
PAT$GL_PATAREA, R9
PAT$GL_FLAGS, R8
PAT$GL_CONTEXT, R7
-140(SP), SP
PAT$GB_EXEC_CMD, 1$
#2, PAT$GL_CONTEXT+2, 1$
SEMSP, R0
                                                          000000000°
                                                                                                       MOVAB
                                                                          00
00
00
00
00
00
00
00
00
00
00
                                                                                   00009
                                                                                                       MOVAB
                                                          0000000G
                                                                                   00010
                                                                                                       MOVAB
                                                          0000000G
                                                                                   00017
                                                                                                       MOVAB
                                                          0000000G
                                                                                   0001E
                                                                                                       MOVAB
                                                                                   00025
                                                                                                       MOVAB
                                                                                                                                                                                 3615
3616
3617
                                                          0000000G
                                                                                   0002A
                                                                                                       BLBS
                                                      A7
                                               02
                                                                                    00031
                                   0E
                                                                                                       BBS
                                                                                                                  SEMSP, RO
                                                                   04
                                                                               DO
                                                                                   00036
                                                                                                       MOVL
```

VO

			G 15 16-Sep-1984 00:23:16 VAX-11 Bliss-32 V4.0-742 Page 14-Sep-1984 12:52:23 DISK\$VMSMASTER:[PATCH.SRC]PATACT.B32;1	25
007A 00BB 0134 02B8	10 0070 00A5 010E 025C	0A 00000000G0040 75 54 04 AC 50 0000000G0044 01 50 003B 002E 00A0 0085 00A0 00AE 00150 02C5	DO 00044 1\$: MOVL SEMSP, R4 DO 00048 MOVL PAT\$GL_SEMAN1[R4], R0 CF 00050 CASEL RO #1 #16	3620
	00000063	8F 50	27\$-2\$,- 27\$-2\$,- 54\$-2\$,- 29\$-2\$,- 46\$-2\$,- 52\$-2\$,- 53\$-2\$ 0 D1 00076 CMPL R0,#99 3 12 0007D BNEQ 12\$ 3 31 0007F BRW 39\$	3887
	3E 000000000	68 06 6 00 00 48 67 6 00 00	31 0007F BRW 39\$ 5 E0 00082 3\$: BBS #6, PAT\$GL_FLAGS, 9\$ 6 FB 00086 CALLS #0, PAT\$ALIGN_CMD 7 E9 0008F 4\$: BLBC PAT\$GL_CONTEXT, 5\$ 6 FB 00092 CALLS #0, PAT\$RESET_DEF	3890 3625 3629 3625 3632 3634
	25 0A 69 000000000	68 72	FB 00092	3637 3645 3646
	000000000	67 09 00 00 52 4E 02 A7	7 95 000AE 6\$: TSTB PAT\$GL_CONTEXT 9 18 000B0 BGEQ 8\$ 0 FB 000B2 CALLS #0, PAT\$CANC_MODULE 2 11 000B9 7\$: BRB 18\$ 7 E9 000BB 8\$: BLBC PAT\$GL_CONTEXT+2, 18\$	3648 3649 3651 3652
	03	68 010F 06 01F5 01 <u>13</u>	5 E1 000C4 9\$: BBC #6, PAT\$GL_FLAGS, 10\$ 5 31 000C8 BRW 48\$	3656
	00000000	7E	31 000CB 10\$: BRW 35\$ 7C 000CE 11\$: CLRQ -(SP) 2 FB 000D0	3663 3671 3672 3675
	000000000	7E 04 A2	DD 000E2 PUSHL #1 2 7D 000E4 MOVQ 4(POINTER), -(SP) 3 FR 000FR CALLS #3 PAISDEFINE SYM	
	000000000	6 00 40 8F	DO 000EF MOVL (PÓINTER), POINTER  11 000F2 BRB 14\$  88 000F4 15\$: BISB2 #64, PAT\$GL_CONTEXT+2  FB 000F9 16\$: CALLS #0, PAT\$DEPOSIT_CMD	3676 3672 3682 3687

						15	15 -Sep-198 -Sep-198	84 00:23: 84 12:52:	16 VAX-11 Bliss-32 V4.0-742 Pag 23 DISK\$VMSMASTER:[PATCH.SRC]PATACT.B32;1	e 26 (5)
	00000000G	A7 00 52	00000000G	5E 00 77 00 6E	88 (FB (D) (D) (D) (D) (D) (D) (D) (D) (D) (D)	00100 00102 00106 0010D 0010F 00116	17\$: 18\$: 19\$: 20\$:	BRB BISB2 CALLS BRB MOVL BEQL	24\$ #1, PAT\$GL_CONTEXT+1 #0, PAT\$EXAMINE_CMD 26\$ PAT\$GL_HEAD_LST, POINTER 26\$ #1	3691 3692 3620 3699 3700 3703
	0000000G	00 52	04	0607A06E00005555A080	9F (	00118 0011A 0011C 0011F 00126 00129		PUSHL CLRL PUSHAB CALLS MOVL BRB CLRB	-(SP) 4(POINTER) #3, PAT\$OUT_MEM_LOC	3704 3700
51		68 53	00000000G	00	94 ( E1 D0 D4	0012B 00131 00135 0013C	21\$:	CLRB BBC MOVL CLRL	20\$ PATSGB_TAKE_CMD #4, PATSGL_FLAGS, 26\$ PATSGL_IHPPTR, ECOLVL_PTR BIT_NUMBER BIT_NUMBER, PATSGL_ECO_UPD, 23\$ BIT_NUMBER, (ECOLVL_PTR), 23\$ 1(BIT_NUMBER)	3710 3711 3714 3715 3717 3719 3721
12 0E	0000000G	63	01	52 52 61	9F	0014A	22\$:	BBC BBS PUSHAB PUSHL	BIT_NUMBER, PATSGL_ECO_UPD, 23\$ BIT_NUMBER, (ECOLVE_PTR), 23\$ 1(BIT_NUMBER) #1	3717 3719 3721
DE		6A 52	006D801B 0000007F	8F 03 8F 78	F 5 (	0014D 0014F 00155 00158 00160	23\$: 24\$:	PUSHL CALLS AOBLEO	#7176219 #3, LIB\$SIGNAL #127 RIT NUMBER 22\$	3717 3620
	04	AE	00000000G 04	8F 00E AB 00E 00E 00E 00E	DD (	00160 00162 00168 0016C 0016F	25\$:	PUSHL	33\$ LIB\$GET_INPUT #14, 4(SP) 4(SP) R11	3620 3726
	00000000G	00	00000000G	00 00 00 00 00 00	9F ( 9F ( FB (	00171 00177 00179 0017F	26\$:	PUSHAB CLRL PUSHAB CALLS	PAT\$GL_HELP_LIN -(SP) LIB\$PUT_OUTPUT #6, LBR\$OUTPUT_HELP	
		50 09 6A A7	00000000G 003 006DBE82	00 86 01	B 0 /	20100	26\$: 27\$:	MOVL BLBS PUSHL CALLS BISB2	PATSGB_MOD_PTR, R0 3(R0), 28\$ #7192194 #1, LIB\$SIGNAL #128, PAT\$GL_CONTEXT+2	3730 3732
	02	A7	000000000 0000000000	8F 175 67 00 AB 03	DD (688 (688 (688 (688 (688 (688 (688 (6	0018F 00193 00199 0019C 001A1 001A7 001AD 001B0 001BB 001BB	28\$: 29\$:		#128, PAT\$GL_CONTEXT+2  54\$  PAT\$GL_CONTEXT, 30\$  PAT\$GL_COMRAB  SET_MODE_CMD+1  SET_MODE_CMD, -(SP)	3733 3738 3741 3751
	000000006	7E 00		UI	9F (9A (FB (FB (11)))	001B0 001B4 001BB		PUSHAB MOVZBL CALLS PUSHL CALLS	#1	3752
03	000000006	68	00	01 22 06 0F 3				BRB BBC BRW	#1, PAT\$SET_MOD_LST 36\$ #6, PAT\$GL_FLAGS, 31\$ 48\$	3741 3756
	000000006	0B	02	01	DD (FB (11)	001D1 001D3 001DA	338:	BLBC PUSHL CALLS BRB	PATSGL_CONTEXT+2, 34\$ #1 #1, PATSSAVE_SCOPE 36\$	3764 3765
0A 03	000000000	A7 00 A7	0.	02 00 135 03	F1 (	001DC 001E1 001E8 001EB	34\$: 35\$: 36\$: 37\$:	BBC CALLS BRW BBS	#2, PATSGL_CONTEXT+2, 37\$ #0, PATSECO_CMDS  55\$ #3, PATSGL_CONTEXT+2, 38\$	3767 3768 3770

							I 15 16-Sep- 14-Sep-	1984 00:23 1984 12:52	16 VAX-11 Bliss-32 V4.0-742 23 DISK\$VMSMASTER: [PATCH.SE	Page 27 RCJPATACT.B32;1 (5)	
			50	04 000000006	00AE AE 59 00	31 001F 9F 001F DD 001F DD 001F DD 001F	3 38\$: 6	BRW PUSHAB PUSHL MOVL PUSHL	45\$ ISE_PTR R9 PAT\$GL_HEAD_LST, R0 4(R0)	3773	
	7B 0000	0000G	00 A7 550 56	000000006	00 03 01 69 00 A0	FB 0020 E1 0020 D0 0020 D0 0021 9E 0021	2 9 E 1 8	CALLS BBC MOVL MOVAB MOVAB ADDL3 MOVZWL	#3, PAT\$MAP_ADDR #1, PAT\$GL_CONTEXT+2, 44\$ PAT\$GL_PATĀREA, R2 PAT\$GL_HEAD_LST, R0 4(R0), R6 8(R0), R5 #20, ISE_PTR, ISD_PTR 2(ISD_PTR), R1	3799 3801 3802	
	50	04	56 55 AE 51 51	04 08 02	A0 14 A0	9E 0021 C1 0022 3C 0022	C	MOVAB ADDL3 MOVZWL	8(RO), R5 #20, ISE_PTR, ISD_PTR 2(ISD_PTR), R1	; 3803 ; 3809 ; 3810	
	51 50	04	51 A0 50		09 09 66	3C 0022 78 0022 78 0022 C2 0023	9	ASHL	#9, RT, R1 #9, 4(ISD_PTR), R0 (R6), R0 R0, R1, AVAIL_BYTE_CNT	3811	
	53		A0 50 51 00		50 53	C2 0023 C1 0023 D1 0023 18 0023	9	SUBL2 ADDL3 CMPL BGEQ	RO, R1, AVAIL BYTE CNT AVAIL BYTE CNT, #12 40\$	3813	
				006D811A	69000000000000000000000000000000000000	18 0023 DD 0023 DD 0024 DD 0024 DD 0024	2	CMPL BGEQ PUSHL PUSHL PUSHL PUSHL	AVAIL_BYTE_CNT (R6) #2 #7176474	3815	
			6A		04	FB 0024	A D 39\$:	CALLS PUSHL BRW	#4, LIB\$SIGNAL R4 56\$	3816	
			53		65 05	DD 0024 31 0024 D5 0025 15 0025 D1 0025	2 40\$:	TSTL BLEQ CMPL	(R5) 41\$ (R5), AVAIL_BYTE_CNT	3820	
			65		00ED 05 05 16 53 62 0F 08	15 0025 00 0025 05 0025	9 B 41\$:	BLEQ MOVL TSTL	AVAIL_BYTE_CNT, (R5) (R2)	3822 3823	
	7E		65		01	C3 0026	2	SUBL3 PUSHL	42 <b>\$</b> #8, (R5), -(SP) #1	3824	
			6A	006D8053	8F 03 62 0B 08 09 8F 01	DD 0026 FB 0026 D5 0027 14 0027 C3 0027 C1 0027 11 0027	8 E 1 42\$:	PUSHL CALLS TSTL BGTR SUBL3 ADDL3	#7176275 #3, LIB\$SIGNAL (R2)	3828	
4	62 A2		65 66		08 08	C3 0027 C1 0027	5 9 F	SUBL3 ADDL3 BRB	43\$ #8, (R5), (R2) #8, (R6), 4(R2) 44\$	3830 3831 3828 3834	
			6A	006D805B	8F 01 7F	DD 0028 FB 0028 D4 0028	0 43\$: 6 9 44\$:	BRB PUSHL CALLS	#7176283 #1, LIB\$SIGNAL -(SP)		
			50 51	04	69 60 8041	DO 0028 3C 0028 9F 0029	B E 1	CALLS CLRL MOVL MOVZWL PUSHAB	PATSGL_PATAREA, RO (RO), R1 a4(RO)[R1] 4(RO)	3838 3839	
	0000	0000G	00	04	7E 69 60 8041 A0 03 7F 67 7B 7E 01 70	DD 0026 FB 0027 C3 0027 C1 0027 DD 0028 FB 0028 DO 0028 FB 0029 FB 0029 FB 0029 FB 0029 FB 0029	5 8 F	PUSHL CALLS BRB TSTB	55\$	3838 3761 3843	
	0000	00000	00		7B 7E	95 002A 18 002A 04 002A	1 45\$: 5 7 E 0 46\$:	CLRL	PATSGL_CONTEXT 55\$ -(SP) #1 PATSSET MODULE	3844	
	0000	0000G	00		70 67	FB 002A 11 002A E9 002B	E 46\$:	BRB BLBC	#1, PATSSET_MODULE 55\$ PATSGL_CONTEXT, 47\$	3741	

PA

						13	15 5-Sep-19 4-Sep-19	84 00:23 84 12:52	:16 VAX-11 Bliss-32 V4.0-742 Pag :23 DISK\$VMSMASTER:[PATCH.SRC]PATACT.B32;1	ge 28 (5)
	0000000G	00		00	FB 11	002B3 002BA		CALLS	#0 PAT\$SHOW_DEFAL	3851
08		68		06	E1	002BC	475:	BRB BBC	#6. PATSGL FLAGS, 49\$	
		6A	006DBE82	8F 01	E1 DD FB	002C0	48\$:	PUSHL	#/192194	3854 3856
			02	55	FB 11 FQ	002C6 002C9 002CB	49\$:	BRB BLBC	#1, LIB\$SIGNAL 55\$ PAT\$GL_CONTEXT+2, 50\$	3862
	0000000G	09 00		őó	E9 FB 11	002CF	770.	CALLS	#O PATSSHOW_SCOPE	3862 3863
				67	95	002CF 002D6 002D8	50\$:	BRB TSTB	PAT\$GL_CONTEXT	3865
	0000000G	00		046F15708790B390B290B24	18 FB 11	002DA		CALLS	#0 PAT\$SHOW_MODULE	3866
36	02	A7		3B 03	E1	002DC 002E3 002E5	51\$:	BRB BBC	#3, PATSGL_CONTEXT+2, 55\$	3868 3871
		50 7E		69	<b>DO</b>	002EA		MOVL	#3, PATSGL_CONTEXT+2, 55\$ PATSGL_PATAREA, RO (RO), =(SP) P.ABI	3871
	0000000G	00	08	AB 02	9F	002F0 002F3		PUSHAB	P.ABÍ #2, PAT\$FAO_OUT	
		50	04	69	FB DO DD	002FA		MOVL PUSHL	PATSGL_PATAREA, RO 4(RO)	3873
	000000006	00	04 25	AB	9F FB	002FD 00300 00303 0030A		PUSHAB	P.ABJ	
				14	11	0030A		CALLS BRB	#2 PAT\$FAO_OUT	3849 3878
	0000000G	00		0B	FB 11	0030C 00313		CALLS BRB BISB2	#0. PAT\$WRTIMG	
	00000000G	A7 00		00 08 20 00 AC	88 FB	00315 00319	53\$: 54\$:	CALLS	#32, PAT\$GL_CONTEXT+2 #0, PAT\$REPEACE_CMD	3882 3883
	00000000v	EF	04	AC 01	DD FB	00320 00323	55\$:	PUSHL	#O, PATSREPEACE_CMD SEMSP #1. WRITE CMD	3904
	00000063	EF 50 8F	000000006	AC	D0 D1	0032A 0032E		MOVL	#1, WRITE_CMD SEMSP, RO PAT\$GL_SEMAN1+8[RO], #99	3911
	0000000	0.	04	OA AC	12	0033A 0033C		BNEQ PUSHL	57\$ SEMSP	3914
	FC72	CF	04	01	FB	UUSSE	56\$:	CALLS	#1. PATSEND OF LINE	
			04	OC AC	11 DD	00344	57\$:	BRB PUSHL CALLS	58\$ SEMSP	3915 3918
	FADB	CF 50		01	FB DO	00349 0034E		MOVL RET	#1, PATSEND_OF_CMD #1, RO	3920
				50	04	00344 00346 00349 0034E 00351 00352 00354	58\$:	RET CLRL RET	RO	3921

; Routine Size: 853 bytes, Routine Base: \_PAT\$CODE + 01D7

P

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L 15
                                                                                                                                                                                                                                                                                                                                                       16-Sep-1984 0^:23:16
14-Sep-1984 12:52:23
PATACT
VO4-000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VAX-11 Bliss-32 V4.0-742 Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles Particles P
                                                                                                                               IF .PATSGB_EXEC_CMD
                                                                                                                               THEN
                                                                                                                                                                             CASE .PAT$GL_SEMAN1 [.SEMSP] FROM ALIGN_TOKEN TO VERIFY_TOKEN OF
              SET
                                                                                      3984
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3
                                                                                                                                                                           [ALIGN_TOKEN]:
                                                                                                                                                                                                                      CH$COPY(.ALIGN_CMD[0], ALIGN_CMD[1], BLANK_FILL,
.ALIGN_CMD[0], CH$PTR(COMMAND_BUF, 0));
                                                                                                                                                                                                                        IF .PATSGL_CONTEXT[ALIGN_BYTE]
                                                                                                                                                                                                                                                                  ALIGN_QUAL_OFF = 0
                                                                                                                                                                                                                      ELSE
                                                                                                                                                                                                                                                                  IF .PATSGL_CONTEXT[ALIGN_WORD]
                                                                                                                                                                                                                                                                                                            ALIGN_QUAL_OFF = ALIGN_QUAL_LNG
                                                                                                                                                                                                                                                                 ELSE
                                                                                                                                                                                                                                                                                                            IF .PAT$GL_CONTEXT[ALIGN_LONG]
                                                                                                                                                                                                                                                                                                            THEN
              960
961
962
963
964
965
966
967
968
970
971
                                                                                                                                                                                                                                                                                                                                                       ALIGN_QUAL_OFF = ALIGN_QUAL_LNG*2
                                                                                    4000
4001
4002
4003
4004
4005
4006
4007
4008
4010
4011
4013
4016
4017
4018
4019
4019
                                                                                                                                                                                                                                                                                                            ELSE
                                                                                                                                                                                                                                                                                                                                                       IF .PATSGL_CONTEXT[ALIGN_QUAD]
                                                                                                                                                                                                                                                                                                                                                       THEN
                                                                                                                                                                                                                                                                                                                                                                                                  ALIGN_QUAL_OFF = ALIGN_QUAL_LNG*3
                                                                                                                                                                                                                                                                                                                                                       ELSE
                                                                                                                                                                                                                                                                                                                                                                                                  ALIGN_QUAL_OFF = ALIGN_QUAL_LNG*4;
                                                                                                                                                                                                                     CH$COPY(ALIGN_QUAL_LNG, ALIGN_QUAL_TBEE.ALIGN_QUAL_OFF],

BLANK_FILL, ALIGN_QUAE_LNG,

CH$PTR(COMMAND_BUF, .AEIGN_CMDEO]));

PAT$WRITEFILE(.ALIGN_CMDEO]+ALIGN_QUAL_LNG,

CH$PTR(COMMAND_BUF, O), PAT$GL_COMRAB);
             972
973
974
975
                                                                                                                                                                                                                      PATSWRITE_NAME (.SEMSP);
                                                                                                                                                                          [CANCEL_TOKEN]:
                                                                                                                                                                                                                     SELECTONE TRUE OF
              980
981
982
983
984
985
986
987
                                                                                                                                                                                                                     [.PAT$GL_CONTEXT[PAT_AREA_BIT]]:
                                                                                                                                                                                                                                                                  PAT$WRITEFILE(.CANCEL_PAT_CMD[0], CANCEL_PAT_CMD[1], PAT$GL_COMRAB);
                                                                                                                                                                                                                     [.PAT$GL_CONTEXT[MODE_BIT]]:
                                                                                                                                                                                                                                                                  PAT$WRITEFILE(.CANCEL_MODE_CMD[0], CANCEL_MODE_CMD[1], PAT$GL_COMRAB);
                988
989
              990
991
992
993
994
995
                                                                                                                                                                                                                     [.PAT$GL_CONTEXT[MODULE_BIT]]:
                                                                                                                                                                                                                                                                   IF (.PATSGL_HEAD_LST NEQU 0)
                                                                                                                                                                                                                                                                                                            BEGIN
                                                                                                                                                                                                                                                                                                            PATSWRITEFILE (.CANCEL_MODU_CMD[0], CANCEL_MODU_CMD[1], PATSGL_COMRAB);
                996
                                                                                                                                                                                                                                                                                                            PATSWRITE_NAME (.SEMSP);
```

```
PATACT
VO4-000
                                                                                           16-Sep-1984 00:23:16
14-Sep-1984 12:52:23
                                                                                                                            VAX-11 Bliss-32 V4.0-742 Pa
DISK$VMSMASTER:[PATCH.SRC]PATACT.B32;1
  997
998
999
1000
                                                                               PAT$WRITEFILE(.EXIT_CMD[0], EXIT_CMD[1], PAT$GL_COMRAB);
                                                                    ELSE
                                                                               PAT$WRITEFILE(.CAN_MOD_ALL_CMD[0], CAN_MOD_ALL_CMD[1], PAT$GL_COMRAB);
   1001
1002
1003
                                                                    END:
                                                         [.PAT$GL_CONTEXT[SCOPE_BIT]]:
  1004
                                                                    PATSWRITEFILE (.CANCEL_SCO_CMD[0], CANCEL_SCO_CMD[1], PATSGL_COMRAB);
   1006
                                                                    END:
                                                         TES:
   1007
   1008
  1009
                                             [CHECK_TOKEN]:
  1010
                                                         BEGIN
  1011
                                                         IF .PAT$GL_CONTEXT[SET_NOT_ECO]
                                                         THEN
  1012
                                                                    PAT$WRITEFILE(.CHECK_N_ECO_CMD[0], CHECK_N_ECO_CMD[1], PAT$GL_COMRAB)
  1013
  1014
                       4054
  1015
                                                         ELSE
                       4055
  1016
                                                                    PAT$WRITEFILE(.CHECK_ECO_CMD[0], CHECK_ECO_CMD[1],
                       4056
  1017
                                                                                           PATSGL_COMRAB);
                       4057
                                                         PATSWRITE_EXP1(.SEMSP);
  1018
                       4058
  1019
                                                         PATSWRITEFILE (.EXIT_CMD[0], EXIT_CMD[1], PATSGL_COMRAB);
                       4059
  1020
1021
1022
1023
1024
1025
1026
1027
1028
1029
1030
                                                         END:
                       4060
                      4061
4062
4063
4064
4065
4066
                                             [CREATE_TOKEN]:
                                             [DEFINE_TOKEN]:
                                                         PATSWRITEFILE (.DEFINE_CMD[0], DEFINE_CMD[1], PATSGL_COMRAB);
                      4067
                                                         PATSWRITE NAME (.SEMSP):
                                                         PATSWRITEFILE (.EXIT_CMD[0], EXIT_CMD[1], PATSGL_COMRAB);
                       4069
                                                        END:
                      4070
4071
4072
4073
  1031
1032
1033
                                             [DELETE_TOKEN]:
                                                         BEGIN
                                                        CH$COPY(.DELETE_CMD[0], DELETE_CMD[1], BLANK FILL,
DELETE_CMD[0], CH$PTR(COMMAND_BUF, 0));
PAT$GET_COMQUAL( COMMAND_BUF, .DELETE_CMD[0], .SEMSP);
  1034
                       4074
  1036
1037
1038
1039
                       4075
                      4076
4077
4078
4079
4080
                                                         PATSWRITE_INS(.SEMSP);
                                                         PATSWRITEFILE (.EXIT_CMD[0], EXIT_CMD[1], PATSGL_COMRAB);
  1040
1041
1042
1043
1044
1045
1046
1047
1048
1049
                                             [DEPOSIT_TOKEN]:
                       4081
                                                        CH$COPY(.DEPOSIT_CMD[0], DEPOSIT_CMD[1], BLANK_FILL,
DEPOSIT_CMD[0], CH$PTR(COMMAND_BUF, 0);
PAT$GET_COMQUAL(_COMMAND_BUF, .DEPOSIT_CMD[0], .SEMSP);
                                                         PATSWRITE_INS(.SEMSP)
                                                         PATSWRITEFILE (.EXIT_CMD[0], EXIT_CMD[1], PATSGL_COMRAB);
                                                         END:
                                             [EXAMINE TOKEN]:
   1051
   1052
                                             [EVALUATE_TOKEN]:
```

P

```
N 15
PATACT
V04-000
                                                                                            16-Sep-1984 00:23:16
14-Sep-1984 12:52:23
                                                                                                                              VAX-11 Bliss-32 V4.0-742 Pag
DISK$VMSMASTER:[PATCH.SRC]PATACT.B32;1
  1054
1055
1056
1057
1058
1059
                                                         0:
                                              [EXIT_TOKEN]:
                                                         PATSWRITEFILE (.EXIT_CMD[0], EXIT_CMD[1], PATSGL_COMRAB);
                                              [HELP_TOKEN]:
  1060
1061
1062
1063
1064
1065
1066
1067
1068
1069
1070
                       4101
                                              [INSERT_TOKEN]:
                       4102
                                                         CH$COPY(.INSERT_CMD[0], INSERT_CMD[1], BLANK_FILL,
.INSERT_CMD[0], CH$PTR(COMMAND_BUF, 0));
PAT$GET_COMQUALT_COMMAND_BUF, .INSERT_CMD[0], .SEMSP);
                       4104
                       4106
                                                         PATSWRITE_INS(.SEMSP);
                                                         PAT$WRITEFILE(.EXIT_CMD[0], EXIT_CMD[1], PAT$GL_COMRAB);
                       4108
                                                         END:
  1071
                       4110
                                              [REPLACE_TOKEN]:
  1072
1073
1074
1075
                                                         BEGIN
                                                         CH$COPY(.REPLACE_CMD[0], REPLACE_CMD[1], BLANK_FILL,
.REPLACE_CMD[0], CH$PTR(COMMAND_BUF, 0);
PAT$GET_COMQUAL(_COMMAND_BUF, .REPLACE_CMD[0], .SEMSP);
                       4114
  1076
                                                         PATSWRITE_INS (.SEMSP);
                       4116
                                                         PATSWRITEFILE (.EXIT_CMD[0], EXIT_CMD[1], PATSGL_COMRAB);
  1078
                                                         END:
                                              [SET_TOKEN]:
  1080
  1081
                                                         SELECTONE TRUE OF
  1082
  1083
  1084
                                                         [.PAT$GL_CONTEXT[SCOPE_BIT]]:
  1085
  1086
                                                                    PATSWRITEFILE(.SET_SCO_CMD[0], SET_SCO_CMD[1], PATSGL_COMRAB);
PATSGL_BUF_SIZ = 0;
PATSCP_OUT_STR = CH$PTR(COMMAND_BUF, 0);
COUNT = 0;
  1087
  1088
  1089
  1090
1091
1092
1093
                                                                     WHILE .PATSGL_CSP_PTRE .COUNT ] NEQA O
                                                                                PATSFAO_PUT(SCO_NAM_CMD, .PATSGL_CSP_PTR[.COUNT]);
  1094
                                                                                COUNT = . COUNT 7 1:
  1096
1097
1098
1099
                                                                     PATSWRITEFILE (.PATSGL_BUF_SIZ, COMMAND_BUF, PATSGL_COMRAB);
  1100
                                                         [.PAT$GL_CONTEXT[SET_ECO]]:
  1101
  1102
                                                                     PATSWRITEFILE(.SET_ECO_CMD[0], SET_ECO_CMD[1], PATSGL_COMRAB);
                                                                     PATSWRITE_EXP1(.SEMSP);
  1104
  1106
                                                         [.PAT$GL_CONTEXT[MODE_BIT]]:
  1108
                                                                     PATSWRITEFILE(.EXIT_CMD[0], EXIT_CMD[1], PATSGL_COMRAB);
  1110
```

```
B 16
PATACT
V04-000
                                                                                                 16-Sep-1984 00:23:16
14-Sep-1984 12:52:23
                                                                                                                                     VAX-11 Bliss-32 V4.0-742 Pa
DISK$VMSMASTER:[PATCH.SRC]PATACT.B32;1
                                                                                                                                                                                             Page
                                                             [.PAT$GL_CONTEXT[PAT_AREA_BIT]]:
                                                                        BEGIN
IF (.PATSGL_CONTEXT[INIT_PAT_BIT]) THEN
BEGIN
                        4153
4153
4155
4156
4157
4158
4158
                                                                                                 OUTPUT_BUFFER : BLOCK [132, BYTE];
   1117
                                                                                     1119
   1120
1121
1122
1123
1124
1125
1126
1127
1128
1129
1130
                        4160
                                                                                    PATSGL_BUF_SIZ = 0;

PATSCP_OUT_STR = CH$PTR (OUTPUT_BUFFER, 0);

PATSOUT_PAT_EXP (.LIST_ELEM_EXP2 (.PAT$GL_HEAD_LST), 0);

PAT$WRITEFITE (.PAT$GL_BUF_SIZ, OUTPUT_BUFFER, PAT$GL_COMRAB);
                        4161
                        4162
                        4164
                                                                                    PATSGL_BUF_SIZ = 0;
PATSCP_OUT_STR = CHSPTR (OUTPUT_BUFFER, 0);
PATSOUT_PAT_EXP (.LIST_ELEM_EXPT (.PATSGL_HEAD_LST), 0);
PATSWRITEFITE (.PATSGL_BUF_SIZ, OUTPUT_BUFFER, PATSGL_COMRAB);
                        4166
                        4168
                        4169
   1131
1132
1133
1134
1135
1136
1137
1138
1139
                                                                         ELSE
                                                                                     BEGIN
                                                                                     PAT$WRITEFILE(.SET_PAT_CMD[0], SET_PAT_CMD[1], PAT$GL_COMRAB);
PAT$WRITE_EXP1(.SEMSP);
                        4174
                                                                         END:
                                                             [.PAT$GL_CONTEXT[MODULE_BIT]]:
   1140
                                                                         IF (.PATSGL_HEAD_LST NEQU 0)
   1141
                        4180
                                                                         THEN
  1142
                                                                                     BEGIN
                                                                                     PAT$WRITEFILE(.SET_MODU_CMD[0], SET_MODU_CMD[1], PAT$GL_COMRAB);
   1144
                                                                                     PATSWRITE_NAME (.SEMSP)
                                                                                     PATSWRITEFILE(.EXIT_CMD[0], EXIT_CMD[1], PATSGL_COMRAB);
   1146
                                                                         ELSE
   1148
                                                                                     PAT$WRITEFILE(.SET_MOD_ALL_CMD[0], SET_MOD_ALL_CMD[1], PAT$GL_COMRAB);
   1149
                                                                         END:
   1150
1151
1152
1153
1154
1155
1156
1157
                                                             TES:
                        4191
                                                [SHOW_TOKEN]:
                        4194
                                                 [UPDATE_TOKEN]:
                                                             PAT$WRITEFILE(.UPDATE_CMD[0], UPDATE_CMD[1], PAT$GL_COMRAB);
   1158
1159
                                                [VERIFY_TOKEN]:
                                                            CH$COPY(.VERIFY_CMD[0], VERIFY_CMD[1], BLANK_FILL,
.VERIFY_CMD[0], CH$PTR(COMMAND_BUF, 0));
PAT$GET_COMQUAL( COMMAND_BUF, .VERIFY_CMD[0], .SEMSP);
   1160
   1161
   1162
1163
                                                             PATSWRITE_INS(.SEMSP)
   1164
1165
                                                             PAT$WRITEFILE(.EXIT_CMD[0], EXIT_CMD[1], PAT$GL_COMRAB);
                                                             END:
   1166
   1167
                                                 [OUTRANGE]:
```

PATACT V04-000 : 1168 : 1169 : 1170 : 1171 : 1172		4207 2 4208 2 4209 2 4210 2 RETURN 4211 1 END;	O; TES;	C 16 16-Sep-1984 14-Sep-1984	00:23:16 VAX-11 Bliss-32 V4.0-742 Page 34 12:52:23 DISK\$VMSMASTER:[PATCH.SRC]PATACT.B32;1 (6	4
	0290 0290 0118 0257	10 00CB 010B 0290 0290	5B 00000000G 00 5A 00000000G 00 59 00000000G 00 58 00000000G 00 FEF8 CE 01 00000000G 00 57 00 04 AC 01 0000000G0047 0078 0023 0078 0090 0125 0262	9E 00002 MON 9E 00009 MON 9E 00017 MON 9E 0001E MON 1 E8 00023 BLE 1 E8 00023 BLE 1 CF 0002F CAS 1 00038 2\$:	NTRY WRITE CMD, Save R2,R3,R4,R5,R6,R7,R8,R9,- R10,RT1 VAB PAT\$WRITEFILE, R11 VAB PAT\$GL_CONTEXT, R10 VAB PAT\$GL_COMRAB, R9 VAB SET_PAT_CMD+1, R8 VAB -267(SP), SP BS PAT\$GB_EXEC_CMD, 1\$ T VL SEMSP, R7 SEL PAT\$GL_SEMAN1[R7], #1, #16 ORD 3\$-2\$,- 16\$-2\$,- 44\$-2\$,- 19\$-2\$,- 21\$-2\$,- 22\$-2\$,- 44\$-2\$,- 23\$-2\$,- 44\$-2\$,- 23\$-2\$,- 24\$-2\$,-	'9
		FF7C CD 04 05 05 05	FF7A C8	DO 00074 MOV 11 00077 BRE E1 00079 5\$: BBC DO 0007D MOV 11 00080 BRE E1 00082 6\$: BBC DO 00086 MOV 11 00089 BRE DO 00088 7\$: MOV	T VZBL ALIGN_CMD, R6 VC3 R6, ACIGN_CMD+1, COMMAND_BUF C	13 17 19 113

FF7C

FF7C

					D 16 16-Sep-1 14-Sep-1	1984 00:23 1984 12:52	:16 VAX-11 Bliss-32 V4.0-742 :23 DISK\$VMSMASTER:[PATCH.SRC]PATACT.B3	Page 35 32;1 (6)
	6B	FF7C 04	59 CD A6 03 57	DD 000 9F 000 9F 000 FB 000 FB 000	99A 99C 0AQ	PUSHAB PUSHAB PUSHAB	R9 COMMAND_BUF 4(R6) #3, PAT\$WRITEFILE	: 4009 : 4010 : 4009
000000000			57	DD 000	A6	CALLS PUSHL CALLS	R7	4011
				04 000	AF	RET	#1, PAT\$WRITE_NAME	3981
0B 02	7E	9E	03 59 A8 A8 40	9F 000	)BO 9\$: )B5 )B7 )BA	PUSHAB	#3, PAT\$GL_CONTEXT+2, 10\$ R9 CANCEL_PAT_CMD+1 CANCEL_PAT_CMD, -(SP)	4019 4021
	OD		40	11 000	BE CO 10\$:	MOVZBL BRB BLBC PUSHL	158 PATSGL_CONTEXT, 118	: 4024
	7E	FF7E	6A 59 C8 C8	9F 000	)C5 )C9 )CE	PUSHL PUSHAB MOVZBL BRB TSTB	CANCEL_MODE_CMD+1 CANCEL_MODE_CMD, -(SP) 15\$	4026
			6A	95 000	000 11\$:	TSTB BGEQ	PATSGL_CONTEXT	: 4029
		000000000	1E 00 0B 59	D5 000	04	TSTL	PAT\$GL_HEAD_LST	4031
	7E	83 82	A8 A8	9F 000	DE DE	BEQL PUSHL PUSHAB MOVZBL	12\$ R9 CANCEL_MODU_CMD+1 CANCEL_MODU_CMD, -(SP)	4034
	7E	8B 8A	4C 59 A8 OE AA	11 000 9F 000 9A 000	)E7 12\$: )E9 )EC	BRB PUSHL PUSHAB MOVZBL	20\$ R9 CAN_MOD_ALL_CMD+1 CAN_MOD_ALL_CMD, -(SP)	4039
	01	02	OE AA	11 000 E8 000	)F0 )F2 13\$:	BRB BLBS	15\$ PAT\$GL_CONTEXT+2, 14\$	: 4042
	7E	98	59 A8 A8	04 000 9F 000 9A 000	)F6 )F7 14\$: )F9 )FC	PUSHL PUSHAB MOVZBL	R9 CANCEL_SCO_CMD+1 CANCEL_SCO_CMD, -(SP)	4044
0B	6A		0102	E1 001	00 15\$: 03 16\$:	BRW BBC	#1, PATSGL_CONTEXT, 17\$	4050
	7E	A5	01C2 01 59 A8 09 59 A8 057	31 001 E1 001 DD 001 9F 001 9A 001	00 15\$: 03 16\$: 07 09 00 10 12 17\$:	PUSHL PUSHAB MOVZBL	R9 CHECK_N_ECO_CMD+1 CHECK_N_ECO_CMD, -(SP) 18\$	4052
		AF	59	DD 001	12 17\$:	BRB PUSHL PUSHAB	R9	4055
	7E 6B	AF AE	A8 03	9A 001	17 1B 18\$:	MOVZBL CALLS PUSHL	CHECK_ECO_CMD, -(SP) #3, PAT\$WRITEFILE R7	1057
000000000	00		01	FB 001	20	CALLS BRW	#1, PATSWRITE_EXP1	4057
	7E	85 84	0192 59 A8 A8 0140	9A 001 9D 001 9B 001 9B 001 9B 001 9B 001 9B 001 9B 001 9B 001 9B 001 9B 001 9B 001 9B 001 9B 001 9B 001 9B 001 9B 001 9B 001	12 17\$: 14 17 18 18\$: 1E 20 27 2A 19\$: 25 33 20\$: 36 21\$: 34 43 22\$:	PUSHL PUSHAB MOVZBL	R9 DEFINE_CMD+1 DEFINE_CMD, -(SP)	4066
	56 A8	B8	A8	9A 00	36 218:	BRW MOVZBL	37\$ DELETE_CMD, R6	: 4073
CD B9	A8		56	28 001	5A 41	MOVC3 BRB	R6, DECETE_CMD+1, COMMAND_BUF	4074
CD BE	56 A8	BD	A8 56 25 A8 56 18	9A 001 28 001 11 001	43 22\$: 47 4E	MOVZBL MOVC3 BRB	DEPOSIT_CMD, R6 R6, DEPOSIT_CMD+1, COMMAND_BUF 25\$	: 4082 : 4083 : 4084

						1	E 16 6-Sep- 4-Sep-	1984 00:23 1984 12:52	:16 \ :23 c	VAX-11 Bliss-32 V4.0 DISK\$VMSMASTER:[PATC	-742 P. H. SRC]PATACT.B32;	age 36
FF7C	CD	CE	56 A8	CD	A8 56 0B A8 56	9A 00150 28 00154	23\$1	MOVZBL MOVC3		CMD, R6 SERT_CMD+1, COMMAND_	BUF	: 4103 : 4104
FF7C	CD	D8	56 A8	D7		9A 00150 28 00154 11 00158 9A 00150 28 00161 31 00168 E9 00168 DD 0016F 9F 00171		BRB MOVZBL MOVC3	REPLACE	E_CMD, R6 PLACE_CMD+1, COMMAND	_BUF	4105 4112 4113
			43	02	013A AA 59	31 00168 E9 00168 DD 0016F 9F 00171	25\$: 26\$:	BRW BLBC PUSHL	PATSGL.	_CONTEXT+2, 29\$		: 4114 : 4124 : 4126
	0000		7E 6B 00	07 06 0000000G FF7C	A8 A8 03	9A 00174		PUSHAB MOVZBL CALLS CLRL MOVAB	SET_SCO #3, PAT PATSGL	D_CMD+1 D_CMD, -(SP) T\$WRITEFILE BUF_SIZ D_BUF, PAT\$CP_OUT_ST	<b>D</b>	4127
	0000			00000006	52 00 6042	D5 00193		MOVL TSTL	PATSGL (RO) ECC 28\$	CSP_PTR, RO DUNT]	•	4129
	0000	0000G (	00	DB	6042 A8 02 52 E3	DD 00198 9F 00198 FB 00196 D6 001A5		BEQL PUSHL PUSHAB CALLS INCL BRB	(RO) [CO SCO_NAM	OUNT] M_CMD T\$FAO_PUT		4133
				FF7C	CD 0096	DD 001A9	28\$:	PUSHAB BRW	R9 COMMAND 33\$			4130
	00		7E	E0 DF	02 59 A8 A8	E1 001B2 DD 001B7 9F 001B9	29\$:	BBC PUSHL PUSHAB MOVZBL	SET_ECO	T\$GL_CONTEXT+2, 30\$ O_CMD+1 O_CMD, -(SP)		: 4139 : 4141
		(	03		0091 6A 00F3	9A 001B0 31 001C0 E9 001C3 31 001C6 E0 001C9 31 001CE	30\$:	BRW BLBC BRW	PATSGL	CONTEXT, 31\$		4145
	03		AA 56		03 0090 A8		31\$: 32\$:	BBS BRW	345	T\$GL_CONTEXT+2, 32\$		4150
FF7C	76 CD 00000	02 0000G	AA 00 68 7E		01 656 556 00 6E	E1 001D5 9E 001DA 28 001E1 7D 001E7		MOVZBL BBC MOVAB MOVC3 MOVQ	#1 PA1 OUTPUT R6, SE1 R6, -(S	T CMD, R6 T\$GL CONTEXT+2, 34\$ BUFFER, PAT\$CP OUT T PAT_CMD+1, COMMAND SP) D BUF T\$GET_COMQUAL	STR _BUF	4158 4152 4157 4159 4160
	00000		EF	FF7C	03	9F 001EA		PUSHAB	M3, PAT	SGET_COMQUAL		4141
	00000	0000G (	00	0000000G	7E	04 001F5 9E 001FB 04 00202		CLRL MOVAB CLRL	LVIAR	BUF SIZ BUFFER, PATSCP_OUT_		: 4161 : 4162 : 4163
	00000		50 00	0000000G 08	A0 02 59	D4 00202 D0 00208 FB 0020E DD 00215 9F 00217 DD 0021A FB 00220		CLRL MOVL PUSHL CALLS PUSHL	PATSGL_ 8(R0) #2, PAT R9	HEAD_LST, RO		4164
	0000	0000G	00 00	00000006 00000006 00000006	00 6E 7E	DD 00217 DD 00217 DD 00217 FB 00220 D4 00223 9E 00229 D4 00232 DD 00232 FB 00230		PUSHAB PUSHL CALLS CLRL MOVAB CLRL MOVL PUSHL	PATSGL #3, PAT PATSGL OUTPUT -(SP)	BUFFER BUF SIZ T\$WRITEFILE BUF SIZ BUFFER, PAT\$CP_OUT_ HEAD_LST, RO	STR	4165 4166 4167
	00000	0000G	00		ÖŽ	FB 00230		CALLS	#2. PA1	T\$OUT_PAL_EXP		:

PATACT V04-000								12	-Sep-	1984 00:23 1984 12:52		VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER:[PATCH.SRC]PATACT.B3	Page 37 2;1 (6)
					000000006	59 AE 00 75	9F 0D 11	00248	33\$:	PUSHL PUSHAB PUSHL BRB PUSHR CALLS PUSHL CALLS	R9 OUTPI PATS	UT_BUFFER GL_BUF_SIZ R6.R8.R9> PAT\$WRITEFILE	; 4168
				6B	0340	8F 03	BB	0024E 00250 00254	34\$: 35\$:	PUSHR	#^M<	R6,R8,R9>	4172
			0000000G	00		57	DD	00257	330.	PUSHL	R7	PAT\$WRITE_EXP1	4173
				H			95	00260	36\$:	ME I	PATS	GL_CONTEXT	: 4121 : 4177
					0000000G	6A 63 00	18	00265		TSTB BGEQ TSTL	445		4179
					EB EA	59	13 DD 9F	0026D 0026F		BEQL PUSHL PUSHAB MOVZBL CALLS PUSHL CALLS BRB PUSHL	SET	MODU_CMD+1	4182
				7E 6B	EA	A8 03 57	FB	0026F 00272 00276	37\$:	CALLS	SET_	MODU CMD, -(SP) PATSWRITEFILE	/107
			0000000G	00		01	FB 11			CALLS	R7	PAT\$WRITE_NAME	4183
				7E	F3 F2	38 59 88 86 59	DD 9F 9A	00284 00286 00289	38\$:	MOV7RI	42\$ R9 SET_ SET_	MOD_ALL_CMD+1 MOD_ALL_CMD, -(SP)	4184 4187
				70	20 1F	56 59 A8	11 DD 9F	0028D 0028F 00291	39\$:	BRB PUSHL PUSHAB MOVZBL	R9 UPDA	TE_CMD+1	4195
				7E	27	2B	9A 11 9A	00298	405.	BRB MOVZBL	43\$	TE_CMD, -(SP)  FY_CMD, R6	4199
	FF7C	CD	28	56 A8 7E	61	A8 A8 A8 A8 56	28 70	0029E	41\$:	MOVC3 MOVQ PUSHAB	R6.	VERIFY_CMD+1, COMMAND_BUF	4199 4200 4201
			00000000v	EF	FF7C	CD 03	9F	8A500		CALLS	COMM.	VERIFY_CMD+1, COMMAND_BUF -(SP) AND_BUF PATSGET_COMQUAL	
			0000000G	00		01	FB	002B3 002B5 002BC 002BE		CALLS	R(	PAT\$WRITE_INS	4202
				75	C7 C6	59 A8	9F	002BC	425:	PUSHL CALLS PUSHL PUSHAB MOVZBL	EXIT	_CMD+1	4203
				7E 6B	(6	A8 A8 03	YA	002C1 002C5 002C8		CALLS RET	#3,	_CMD+1 _CMD, _(SP) PAT\$WRITEFILE	4211

; Routine Size: 713 bytes, Routine Base: \_PAT\$CODE + 052C

```
G 16
16-Sep-1984 00:23:16
14-Sep-1984 12:52:23
PATACT
V04-000
                                                                                                                            VAX-11 Bliss-32 V4.0-742 Pag
DISK$VMSMASTER:[PATCH.SRC]PATACT.B32;1
                                  GLOBAL ROUTINE PATSSET_OVERS (LEVEL, TOKEN) : NOVALUE =
  1174
1175
1176
1177
1178
1179
1180
1181
1183
1184
1188
1188
1189
1190
1191
1193
                                    FUNCTIONAL DESCRIPTION:
                                             Sets OVERRIDE or LOCAL modes by setting the new mode level, and then setting the mode itself.
                                    CALLING SEQUENCE:
                                             PAT$SET_OVERS ()
                                    INPUTS:
                                             LEVEL
                                                                    - Level of modes to set
                                                                    - Mode token to be set in the mode stack
                                     IMPLICIT INPUTS:
                                             none
  1194
1195
                                    OUTPUTS:
  1196
1197
1198
1199
1200
1201
1202
1203
1204
1205
1206
1207
12108
1211
1212
1213
1214
1215
                                             none
                                     IMPLICIT OUTPUTS:
                                             none
                                    ROUTINE VALUE:
                                             NOVALUE
                                    SIDE EFFECTS:
                                             The appropriate modes are set.
                                  BEGIN
                                  PATSSET_MOD_LVL (.LEVEL);
PATSSET_NEW_MOD (.TOKEN);
                                                                                                                                                                                      4212
                                                                                                                    PAT$SET_OVERS, Save nothing
                                                                              0000 00000
                                                                                                          .ENTRY
                                                                                                                    LEVEL #1, PATSSET_MOD_LVL
                                                                                                         PUSHL
                                                                           01
                                                                                FB
                                                                                                         CALLS
                                        000000006 90
                                                                                                                                                                                      4252
                                                                           AC
01
                                                                                DD FB
                                                                    08
                                                                                                         PUSHL
                                                                                                                    TOKEN
                                                                                                                    #1, PATSSET_NEW_MOD
                                        00000000G 00
                                                                                                         CALLS
                                                                                                                                                                                     4253
                                                                                     00016
                                                                                                         RET
: Routine Size: 23 bytes,
                                          Routine Base: _PAT$CODE + 07F5
```

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16
                                                                                                 16-Sep-1984 00:23:16
14-Sep-1984 12:52:23
                                                                                                                                     VAX-11 Bliss-32 V4.0-742 Pag
DISK$VMSMASTER:[PATCH.SRC]PATACT.B32;1
PATACT
V04-000
                                                                                                HEXADECIM TOKEN, HEX QUAL,
ASCII TOKEN, ASCII QUAL,
NOASCII TOKEN, NOASCII QUAL,
OCTAL TOKEN, OCTAL QUAL,
LITERAL TOKEN, LITER QUAL,
INITIALIZ TOKEN, INITIALIZE QUAL
  ) : VECTOR[,BYTE]:
                                    LOCAL
                                                 TOKEN_INDEX;
                                                                                                                                      ! Index into command qualifier table
                                       Loop, searching the command table for a token matching the one in the parse stack. The corresponding command qualifier bit is set when a match
                                       is found.
                                    INCR TOKEN_INDEX FROM MIN_QUAL TO MAX_QUAL+2 BY 2
                                                 IF (.COM_QUAL_TABLE[.TOKEN_INDEX] EQL .PAT$GL_SEMAN1[.QUAL_OFFSET])
                                                             PATSGL_COMQUAL [ .COM_QUAL_TABLE[.TOKEN_INDEX+1] ] = TRUE;
                                                             EXITLOOP;
                                                             END:
                                    RETURN:
  1300
                                    END:
                                                                                                                            _PAT$PLIT, NOWRT, NOEXE, 0
                                                                                                                 .PSECT
                                                                                                                            28. 0. 22. 1. 49. 2. 21. 3. 45. 4. 38. 5. -
31. 6. 27. 7. 20. 8. 36. 9. 42. 10. 30. -
11. 50. 12
                                                                                           00119 P.ABK:
00128
                                                                                                                 .BYTE
                                                                                                    COM_QUAL_TABLE=
                                                                                                                                   P.ABK
                                                                                                                 .PSECT
                                                                                                                            _PAT$CODE,NOWRT,2
                                                                                   0004 00000
0 D0 00002
0 D4 00006
0 ED 00008 1$:
                                                                                                                            PAT$SET_COMQUAL, Save R2
QUAL_OFFSET, R1
TOKEN_INDEX
                                                                                                                                                                                                   4254
                                                                                                                 .ENTRY
                                                                                AC
50
                                                           51
                                                                         04
                                                                                                                 MOVL
                                                                                                                CLRL
                                                                                                                             #0, #8, COM QUAL TABLE[TOKEN_INDEX], -
PATSGL_SEMAN1[R1]
00000000G0041 00000000'EF40
                                                           08
                                                                                           00017
00019
00021
00029
0002A
00030
                                                                                                                 BNEQ
                                                                                       12
9A
E2
04
F1
04
                                                                00000000'EF40
                                                                                                                                                                                                   4332
                                                                                                                            COM_QUAL_TABLE+1[TOKEN_INDEX], R2
R2, PAT$GL_COMQUAL, 3$
                                                                                                                 MOVZBL
                                      07 00000000G
                                                                                                                 BBSS
                                                                                                                 RET
                                                                                 18
              FFD8
                                      50
                                                           02
                                                                                                                 ACBL
                                                                                                                             #24, #2, TOKEN_INDEX, 1$
                                                                                                                 RET
                                              Routine Base: _PAT$CODE + 080C
: Routine Size: 49 bytes,
```

```
J 16
16-Sep-1984 00:23:16
14-Sep-1984 12:52:23
PATACT
V04-000
                                                                                                                                                    VAX-11 Bliss-32 V4.0-742 Page 41 DISK$VMSMASTER:[PATCH.SRC]PATACT.B32;1 (9)
1303678901123456678901234566789012333333333334423445678911335555678
                                        GLOBAL ROUTINE PATSGET_COMQUAL (COMMAND_BUF, COMMAND_SIZE, SEMSP) : NOVALUE =
                                           FUNCTIONAL DESCRIPTION:
                           This routine enters the command qualifiers into the command line buffer being constructed. The qualifiers are indicated by bits set in the command qualifier indicator longword, PAT$GL_COMQUAL. The routine writes the command line to the output command file after it enters the qualifiers. Note that the command verb has already been entered into the buffer.
                                            CALLING SEQUENCE:
                                                      PATSGET_COMQUAL (COMMAND_BUF, COMMAND_SIZE, SEMSP)
                                            INPUTS:
                                                      COMMAND_BUF - Address of command line buffer
                                                      COMMAND SIZE - Number of command bytes already entered in the buffer SEMSP - Offset in parse stack to command token
                                            IMPLICIT INPUTS:
                                                      PATSGL_COMQUAL - Indicator for qualifiers specified in command
                                           OUTPUTS:
                                                      none
                                            IMPLICIT OUTPUTS:
                                                     none
                           4372
4373
4374
4375
                                           ROUTINE VALUE:
                                                     NOVALUE
                           4376
43778
43378
43383
43383
43388
43388
43388
43388
43391
43394
                                           SIDE EFFECTS:
                                                      The command verb and qualifiers are written to the output command file.
                                        BEGIN
                                        MAP
                                                      COMMAND_BUF : REF VECTOR[,BYTE];
                                                                                                                                                    ! Command line buffer
                                     2 LITERAL
                                                      HYPHEN = "XX'2D"
                                                                                                                                                    ! Ascii continuation character (hyphen)
! Ascii fill character (space)
                                                      BLANK FILL = %x 20':
                                    2 BIND
                                        LOCAL
                                                      COM_SIZE,
QUALIFIER_BIT;
                                                                                                                                                     ! Number of bytes written into command line ! Number of qualifier bit
```

```
K 16
16-Sep-1984 00:23:16
14-Sep-1984 12:52:23
PATACT
VO4-000
                                                                                                                        VAX-11 Bliss-32 V4.0-742 Page DISK$VMSMASTER:[PATCH.SRC]PATACT.B32;1
  CQ_TABLE = UPLIT BYTE (
                     %ASCIC '/I',
%ASCIC '/B',
%ASCIC '/B',
%ASCIC '/B',
%ASCIC '/PAT',
%ASCIC '/NOI',
%ASCIC '/LO',
%ASCIC '/H',
%ASCIC '/AS',
%ASCIC '/OC',
%ASCIC '/INIT='
                                                                                                                        ) : VECTOR[,BYTE],
                                            CQ_OFFSET_TBL = UPLIT BYTE (
                                                                                            +5+3+3+5+5+4+3+4+6,
+5+3+3+5+5+4+3+4+6+4,
+5+3+3+5+5+4+3+4+6+4+4
                                                                                                                           : VECTOR[,BYTE];
                                   Loop, testing each qualifier bit. If it is set then write the qualifier into the command buffer and update the size of the command line.
                                 COM_SIZE = .COMMAND_SIZE;
INCR QUALIFIER_BIT FROM MIN_QUAL TO MAX_QUAL BY 1
                                           IF .PAT$GL_COMQUAL [.QUALIFIER_BIT]
THEN
                                                     Check if this is an EXAMINE command. If so, put a continuation character
                                    on the end of the line. This is due to the special syntax for the EXAMINE
                                    command enabling one to examine sequential locations without specifying
                                    the address.
                                 IF (.PATSGL_SEMAN1[.SEMSP] EQL EXAMINE_TOKEN)
```

```
L 16
                                                                                                                  16-Sep-1984 00:23:16
14-Sep-1984 12:52:23
PATACT
VO4-000
                                                                                                                                                             VAX-11 Bliss-32 V4.0-742 Pag
DISK$VMSMASTER:[PATCH.SRC]PATACT.B32;1
                             44554
44556
7890
44661
24463
                                           THEN
   1416
1417
1418
1420
1421
1422
1422
1422
1422
1433
1433
                                            BEGIN

***** THIS CH$PTR IS HERE TO GET AROUND A COMPILER BUG.

***** IT SHOULD EVENTUALLY BE REMOVED AND BECOME:

COMMAND_BUF[.COM_SIZE] = BLANK_FILL;

COMMAND_BUF[.COM_SIZE + 1] = HPPHEN;

CH$PTR(COMMAND_BUF[.COM_SIZE], 0) = BLANK_FILL;

CH$PTR(COMMAND_BUF[.COM_SIZE], 1) = HYPHEN;

COM_SIZE = .COM_SIZE + 2;

END:
                                       PATSI
PATSI
1 END;
                            4464
                                              Now write out the command verb and qualifiers to the command file.
                            4466
                                          PATSWRITEFILE (.COM_SIZE, COMMAND_BUF[0], PATSGL_COMRAB);
                                           RETURN;
                                                                                                                                     .PSECT _PAT$PLIT,NOWRT,NOEXE,0
                                                                                                           00133 P.ABL:
                                                                                                                                    .ASCII
                                                                                                    <2>\/1\
                                                                                                                                                   <4>\/DEC\
                                                                                                                                    .ASCII
                                                                                                           0013B
                                                                                                                                                   <2>\/W\
                                                                                                                                     .ASCII
                                                                                                           0013E
                                                                                     <2>\/B\
                                                                                                                                     .ASCII
                                                                              41
4F
4F
                                                                                                           00141
                                                                                                                                                   <4>\/PAT\
                                                                                                                                     .ASCII
                                                                                                           00146
                                                                                                                                                  <4>\/NOI\
                                                                                                                                     .ASCII
                                                                                                           0014B
                                                                                                                                                  <3>\/L0\
                                                                                                                                     .ASCII
                                                                                                           0014F
                                                                                                                                                  <2>\/H\
<3>\/AS\
                                                                                                                                     .ASCII
                                                                                                           00152
                                                                                                                                     .ASCII
                                                                                                           00156
00150
00160
00164
                                                                53
                                                                       41
                                                                                                                                                   <5>\/NOAS\
                                                                                                                                     .ASCII
                                                                                                                                                   <3>\/OC\
                                                                                                                                     .ASCII
                                                                                                                                     .ASCII
                                                                                                                                                   <3>\/LI\
                                                                                                                                     .ASCII
                                                                                                                                                  <6>\/INIT=\
                                                                                                           0016B
                                                                                                                                                  0, 3, 8, 11, 14, 19, 24, 28, 31, 35, 41, -45, 49
                                 23 1F 1C
                                                                                                                     P.ABM:
                                                                                                                                    .BYTE
                                                                                                                      CQ_TABLE=
CQ_OFFSET_TBL=
                                                                                                                                                         P.ABL
                                                                                                                                                         P. ABM
                                                                                                                                                  _PAT$CODE,NOWRT,2
                                                                                                                                     .PSECT
                                                                                                  03FC 00000
                                                                                                                                                  PATSGET_COMQUAL, Save R2, R3, R4, R5, R6, R7, R8, -: 4338
                                                                                                                                     .ENTRY
                                                                                                                                                 CQ OFFSET TBL, R9
COMMAND SIZE, COM_SIZE
QUALIFIER_BIT
QUALIFIER_BIT, PATSGL COMQUAL, 2$
CQ_OFFSET TBL[QUALIFIER_BIT], R0
CQ_TABLE[R0], R7
R7, CQ_TABLE+1[R0], aCOMMAND_BUF[COM_SIZE]
R7, COM_SIZE
#12, QUALIFIER_BIT, 1$
SEMSP, R0
PATSGL_SEMAN1[R0], #9
                                                                                     00° EF
08 AC
56
56
6946
08 A940
57
57
                                                                                                          20000
00000
00000
                                                                           000000000
                                                                                                     9E
                                                                                                                                     MOVAB
                                                                                                                                    MOVL
                                                                                                                                    CLRL
                                                                                                     D419980
F3
                                             14 00000000G
                                                                                                           0000F 1$:
                                                                                                                                    BBC
                                                                                                          00017
0001B
                                                                                                                                    MOVZBL
                                                                                                                                    MOVZBL
                                                            C9 A940
58
56
50
09
                                                                                                                                                                                                                                    4441
4442
4434
4451
                                                                                                           00020
                                                                                                                                    MOVC3
ADDL2
                                    04 BC48
                                                                                                           00028
                                                                                                           0002B
                                                                                                                                     AOBLEQ
                                             E0
                                                                           DO
                                                                                                           0002F
                                                                                                                                     MOVL
                                                                                                      D1
                                                                                                           00033
                                                                                                                                    CMPL
```

PATACT V04-000			M 16 16-Sep-19 14-Sep-19	984 00:23:16 984 12:52:23	VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER:[PATCH.SRC]PATA	Page 44 CT.B32;1 (9)
	50 01 00000006	58 04 60 A0 58 000000006 04	OF 12 0003B AC C1 0003D 20 D0 00042 2D D0 00045 02 C0 00049 00 9F 0004C 3\$: AC DD 00052 58 DD 00055 03 FB 00057 04 0005E	ADDLZ #2, C	AND_BUF, COM_SIZE, RO  (RO) 1(RO) COM_SIZE GL_COMRAB AND_BUF GIZE PAT\$WRITEFILE	4458 4459 4460 4466

B 1 16-Sep-1984 00:23:16 14-Sep-1984 12:52:23 VAX-11 Bliss-32 V4.0-742 Page 45 DISK\$VMSMASTER:[PATCH.SRC]PATACT.B32;1 (10) PATACT V04-000 4469 1 END 4470 0 ELUDOM : 1434 : 1435 .EXTRN LIB\$SIGNAL PSECT SUMMARY Name Attributes Bytes 376 NOVEC, NOWRT, RD , NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(0)
2204 NOVEC, NOWRT, RD , EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
0 NOVEC, NOWRT, NORD , NOEXE, NOSHR, LCL, ABS, CON, NOPIC, ALIGN(0) PATSPLIT PATSCODE . ABS . Library Statistics ----- Symbols -----Pages Processing File Total Loaded Percent Mapped Time \$255\$DUA28:[SYSLIB]LIB.L32;1 13 18619 1000 00:01.8 : Information: 00 ; Warnings: : Errors: COMMAND QUALIFIERS : BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/VARIANT:1/LIS=LIS\$:PATACT/OBJ=OBJ\$:PATACT MSRC\$:PATACT/UPDATE=(ENH\$:PATACT) : Size: 2204 code + 376 data bytes 01:03.4 Rum Time: Elapsed Time: 03:18.5 Lines/CPU Min: 4230 Lexemes/CPU-Min: 33840 : Elapsed Time: : Memory Used: 466 pages : Compilation Complete

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